

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

BASF Corporation

AUTHORIZING THE OPERATION OF

Caprolactam Complex  
Industrial Organic Chemicals

LOCATED AT

Brazoria County, Texas

Latitude 29° 0' 5" Longitude 95° 24' 31"

Regulated Entity Number: RN100218049

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O1926 Issuance Date: July 6, 2010

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For the Commission

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## **General Terms and Conditions**

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

## **Special Terms and Conditions: Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting**

1. Permit holder shall comply with the following requirements:
  - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
  - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

- C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
- D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
- E. Emission units subject to 40 CFR Part 63, Subpart FFFF as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.890 which incorporates the 40 CFR Part 63 Subpart by reference.
- F. For the purpose of generating emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 1 (Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
  - (i) Title 30 TAC § 101.302 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.303 (relating to Emission Reduction Credit Generation Certification)
  - (iii) Title 30 TAC § 101.304 (relating to Mobile Emission Reduction Credit Generation and Certification)
  - (iv) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)
  - (v) Title 30 TAC § 101.309 (relating to Emission Credit Banking and Trading)
  - (vi) The terms and conditions by which the emission limits are established to generate the reduction credit are applicable requirements of this permit
- G. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 3 (Mass Emission Cap and Trade Program) Requirements:
  - (i) Title 30 TAC § 101.352 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.353 (relating to Allocation of Allowances)
  - (iii) Title 30 TAC § 101.354 (relating to Allowance Deductions)

- (iv) Title 30 TAC § 101.356 (relating to Allowance Banking and Trading)
  - (v) Title 30 TAC § 101.358 (relating to Emission Monitoring and Compliance Demonstration)
  - (vi) Title 30 TAC § 101.359 (relating to Reporting)
  - (vii) Title 30 TAC § 101.360 (relating to Level of Activity Certification)
  - (viii) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit
- H. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
- (i) Title 30 TAC § 101.372 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)
  - (iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)
  - (iv) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)
  - (v) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)
  - (vi) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
  - B. Title 30 TAC § 101.3 (relating to Circumvention)
  - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ

- D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
  - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
  - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
  - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
  - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
  - I. Title 30 TAC § 101.222 (relating to Demonstrations)
  - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1 , shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
    - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
    - (ii) Title 30 TAC § 111.111(a)(1)(E)
    - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
    - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the

“Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

- (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
- (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer’s eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (5) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
  - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
  - (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.
- B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:
  - (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
  - (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
  - (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:



- (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
- (2) Records of all observations shall be maintained.
- (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (4) Compliance Certification:
  - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A)
  - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is

performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader

- C. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- D. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- E. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
  - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
  - (ii) Sources with an effective stack height ( $h_e$ ) less than the standard effective stack height ( $H_e$ ), must reduce the allowable emission level by multiplying it by  $[h_e/H_e]^2$  as required in 30 TAC § 111.151(b)
  - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- 4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: Storage of Volatile Organic Compounds, the permit holder shall comply with the requirements of 30 TAC § 115.112(e)(1).
- 5. For industrial wastewater specified in 30 TAC Chapter 115, Subchapter B, the permit holder shall comply with the following requirements for wastewater drains, junction boxes, lift stations and weirs:
  - A. Title 30 TAC § 115.142 (relating to Control Requirements)
  - B. Title 30 TAC § 115.142(1)(A) - (D) (relating to Control Requirements)
  - C. Title 30 TAC § 115.142(1)(E) and (F) (relating to Control Requirements)

- D. Title 30 TAC § 115.145 (relating to Approved Test Methods)
  - E. Title 30 TAC § 115.146 (relating to Recordkeeping Requirements)
  - F. Title 30 TAC § 115.147(2) (relating to Exemptions), for streams with an annual VOC loading of 10 megagrams (11.03 tons) or less
  - G. Title 30 TAC § 115.148 (relating to Determination of Wastewater Characteristics)
6. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
- A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
  - B. Title 40 CFR § 60.8 (relating to Performance Tests)
  - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
  - D. Title 40 CFR § 60.12 (relating to Circumvention)
  - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
  - F. Title 40 CFR § 60.14 (relating to Modification)
  - G. Title 40 CFR § 60.15 (relating to Reconstruction)
  - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
7. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 61, unless otherwise stated in the applicable subpart:
- A. Title 40 CFR § 61.05 (relating to Prohibited Activities)
  - B. Title 40 CFR § 61.07 (relating to Application for Approval of Construction or Modification)
  - C. Title 40 CFR § 61.09 (relating to Notification of Start-up)
  - D. Title 40 CFR § 61.10 (relating to Source Reporting and Request Waiver)
  - E. Title 40 CFR § 61.12 (relating to Compliance with Standards and Maintenance Requirements)

- F. Title 40 CFR § 61.13 (relating to Emissions Tests and Waiver of Emission Tests)
  - G. Title 40 CFR § 61.14 (relating to Monitoring Requirements)
  - H. Title 40 CFR § 61.15 (relating to Modification)
  - I. Title 40 CFR § 61.19 (relating to Circumvention)
8. For facilities where total annual benzene quantity from waste is greater than or equal to 1 megagram per year and less than 10 megagrams per year and subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:
- A. Title 40 CFR § 61.355(a)(1)(iii), (a)(2), (a)(4)(i) - (ii), (a)(6), (b), and (c)(1) - (3) (relating to Test Methods, Procedures, and Compliance Provisions), for calculation procedures
  - B. Title 40 CFR § 61.356(a) (relating to Recordkeeping Requirements)
  - C. Title 40 CFR § 61.356(b), and (b)(1) (relating to Recordkeeping Requirements)
  - D. Title 40 CFR § 61.357(a), and (c) (relating to Reporting Requirements)
9. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

### **Additional Monitoring Requirements**

10. The permit holder shall comply with the periodic monitoring requirements as specified in the attached “Periodic Monitoring Summary” upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the “Periodic Monitoring Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

## **New Source Review Authorization Requirements**

11. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
  - A. Are incorporated by reference into this permit as applicable requirements
  - B. Shall be located with this operating permit
  - C. Are not eligible for a permit shield
12. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
13. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, material safety data sheets (MSDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144.
  - A. If applicable, monitoring of control device performance or general work practice standards shall be made in accordance with the TCEQ Periodic Monitoring Guidance document.
  - B. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

## **Compliance Requirements**

14. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed

12 months and the certification must be submitted within 30 days after the end of the period being certified.

15. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
  - A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:
    - (i) For sources in the Houston-Galveston-Brazoria Nonattainment area, 30 TAC § 117.9020:
      - (1) Title 30 TAC § 117.9020(2)(A), (C), and (D)
  - B. The permit holder shall comply with the Initial Control Plan unit listing requirement in 30 TAC § 117.350(c) and (c)(1).
  - C. The permit holder shall comply with the requirements of 30 TAC § 117.354 for Final Control Plan Procedures for Attainment Demonstration Emission Specifications and 30 TAC § 117.356 for Revision of Final Control Plan.
16. Use of Emission Credits to comply with applicable requirements:
  - A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) Offsets for Title 30 TAC Chapter 116
  - B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:
    - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)(2)
    - (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1
    - (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)(2)
    - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122

17. Use of Discrete Emission Credits to comply with the applicable requirements:
- A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) If applicable, offsets for Title 30 TAC Chapter 116
    - (iv) Temporarily exceed state NSR permit allowables
  - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
    - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
    - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
    - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
    - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122

### **Risk Management Plan**

18. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

### **Protection of Stratospheric Ozone**

19. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone.

- A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

### **Alternative Requirements**

20. The permit holder shall comply with the approved alternative means of control (AMOC); alternative monitoring, recordkeeping, or reporting requirements; or requirements determined to be equivalent to an otherwise applicable requirement contained in the Alternative Requirements attachment of this permit. Units complying with an approved alternative requirement have reference to the approval in the Applicable Requirements summary listing for the unit. The permit holder shall maintain the original documentation, from (the EPA Administrator and/or TCEQ Executive Director), demonstrating the method or limitation utilized. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144.

### **Permit Location**

21. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

### **Permit Shield (30 TAC § 122.148)**

22. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.



## **Attachments**

**Applicable Requirements Summary**

**Additional Monitoring Requirements**

**Permit Shield**

**New Source Review Authorization References**

**Alternative Requirement**

### **Applicable Requirements Summary**

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Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
14-1-D806A	Chemical Manufacturing Process	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
14-1-T330	Distillation Operations	N/A	60NNN-C	40 CFR Part 60, Subpart NNN	No changing attributes.
14-1-T340A	Distillation Operations	N/A	60NNN-C	40 CFR Part 60, Subpart NNN	No changing attributes.
14-1-T430	Distillation Operations	N/A	60NNN-C	40 CFR Part 60, Subpart NNN	No changing attributes.
14-1-T510	Distillation Operations	N/A	60NNN-E	40 CFR Part 60, Subpart NNN	No changing attributes.
7-1-T504	Distillation Operations	N/A	60NNN-E	40 CFR Part 60, Subpart NNN	No changing attributes.
7-1-T506	Distillation Operations	N/A	60NNN-C	40 CFR Part 60, Subpart NNN	No changing attributes.
7-1-T706	Distillation Operations	N/A	60NNN-E	40 CFR Part 60, Subpart NNN	No changing attributes.
7-1-T707	Distillation Operations	N/A	60NNN-E	40 CFR Part 60, Subpart NNN	No changing attributes.
7-1-T907	Distillation Operations	N/A	60NNN-C	40 CFR Part 60, Subpart NNN	No changing attributes.
7-1-T909	Distillation Operations	N/A	60NNN-C	40 CFR Part 60, Subpart NNN	No changing attributes.
7-2-T285	Distillation Operations	N/A	60NNN-E	40 CFR Part 60, Subpart NNN	No changing attributes.
GRPNNNR170	Distillation Operations	11-1-T140, 11-1-T151, 11-1-T152, 11-1-T1520, 11-1-T153A, 11-1-T154, 11-1-T180, 11-1-T210A, 11-1-T220, 11-1-T225, 11-1-T230, 11-1-T240, 11-1-T250, 11-1-T290, 7-2-T105A, 7-2-T106A, 7-2-T11, 7-2-T14, 7-2-T15A, 7-2-T200, 7-2-T280, 7-2-T9B	60NNN-F	40 CFR Part 60, Subpart NNN	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPNNNS260	Distillation Operations	14-1-T215, 14-1-T220, 14-1-T230A, 14-1-T310, 14-1-T320	60NNN-D	40 CFR Part 60, Subpart NNN	No changing attributes.
GRPNNNS300	Distillation Operations	7-1-T505, 7-1-T701B1, 7-1-T702-2, 7-1-T703, 7-1-T704-1, 7-1-T705	60NNN-D	40 CFR Part 60, Subpart NNN	No changing attributes.
11-1-100	Emission Points/Stationary Vents/Process Vents	N/A	R5121-C	30 TAC Chapter 115, Vent Gas Controls	VENT TYPE = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not specifically classified under the rule.
11-1-100	Emission Points/Stationary Vents/Process Vents	N/A	R5121-D1	30 TAC Chapter 115, Vent Gas Controls	VENT TYPE = Vent gas stream is emitted from an air oxidation synthetic organic chemical manufacturing process.
11-1-100	Emission Points/Stationary Vents/Process Vents	N/A	R5121-D2	30 TAC Chapter 115, Vent Gas Controls	VENT TYPE = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10., TOTAL DESIGN CAPACITY = Total

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit., FLOW RATE/CONCENTRATION = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv., 40 CFR 60 RRR REQS = The reactor process vent gas stream satisfies one of the following requirements of 40 CFR Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
11-1-100	Emission Points/Stationary Vents/Process Vents	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
11-1-101	Emission Points/Stationary Vents/Process Vents	N/A	R5121-G	30 TAC Chapter 115, Vent Gas Controls	VENT TYPE = Title 30 TAC Chapter 115, Subchapter B, Vent Gas

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					Control rules are applicable and the vent is not specifically classified under the rule., COMBINED 24-HR VOC WT. = Combined VOC weight is less than or equal to 100 pounds (45.4 kg)., VOC CONC @ MAX OPERATING = The VOC concentration or emission rate is less than the applicable exemption limit at maximum actual operating conditions and the alternate recordkeeping requirements of 30 TAC § 115.126(4) are being selected.
11-1-101	Emission Points/Stationary Vents/Process Vents	N/A	R5121-J	30 TAC Chapter 115, Vent Gas Controls	VENT TYPE = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10., ALTERNATE

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					<p>CONT REQMT = Alternate control is not used., TOTAL DESIGN CAPACITY = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit., FLOW RATE/CONCENTRATION = Flow rate is less than 0.011 scm/min or the VOC concentration is less than 500 ppmv., 40 CFR 60 RRR REQS = The reactor process vent gas stream satisfies one of the following requirements of 40 CFR Part 60, Subpart RRR: TRE index value is greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.</p>
11-1-2	Emission Points/Stationary Vents/Process Vents	N/A	R5121-J1	30 TAC Chapter 115, Vent Gas Controls	VENT TYPE = Vent gas stream is emitted from an air oxidation synthetic organic

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					chemical manufacturing process.
11-1-2	Emission Points/Stationary Vents/Process Vents	N/A	R5121-J2	30 TAC Chapter 115, Vent Gas Controls	VENT TYPE = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10., TOTAL DESIGN CAPACITY = Total design capacity is greater than or equal to 1,100 tons per year for all chemicals produced within that unit., FLOW RATE/CONCENTRATION = Flow rate is greater than or equal to 0.011 scm/min or the VOC concentration is greater than or equal to 500 ppmv., 40 CFR 60 NNN REQS = The distillation unit vent gas stream satisfies one of the following requirements of 40 CFR Part 60, Subpart NNN: TRE index value is



## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					greater than 8.0; or TRE index value is greater than 1.0 without the use of VOC emission control devices.
11-1-2	Emission Points/Stationsary Vents/Process Vents	N/A	R5121-K	30 TAC Chapter 115, Vent Gas Controls	VENT TYPE = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not specifically classified under the rule.
11-1-2	Emission Points/Stationsary Vents/Process Vents	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
12-1-29	Emission Points/Stationsary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
12-1-31	Emission Points/Stationsary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
12-1-33	Emission Points/Stationsary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
12-1-44	Emission Points/Stationsary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
14-1-69	Emission Points/Stationsary Vents/Process Vents	N/A	R5121-B	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
14-1-75	Emission Points/Stationary Vents/Process Vents	N/A	R5121-Q	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
14-1-75	Emission Points/Stationary Vents/Process Vents	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
14-1-76	Emission Points/Stationary Vents/Process Vents	N/A	R5121-O	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
14-1-76	Emission Points/Stationary Vents/Process Vents	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
14-1-V600A	Emission Points/Stationary Vents/Process Vents	N/A	R5121-G	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
14-1-V600B	Emission Points/Stationary Vents/Process Vents	N/A	R5121-G	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-1	Emission Points/Stationary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
7-1-1	Emission Points/Stationary Vents/Process Vents	N/A	R5121-G	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-2	Emission Points/Stationary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
7-1-2	Emission Points/Stationary Vents/Process Vents	N/A	R5121-G	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-3	Emission Points/Stationary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
7-1-3	Emission Points/Stationsary Vents/Process Vents	N/A	R5121-G	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-4	Emission Points/Stationsary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
7-1-4	Emission Points/Stationsary Vents/Process Vents	N/A	R5121-G	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-46	Emission Points/Stationsary Vents/Process Vents	N/A	R5121-B	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-48	Emission Points/Stationsary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
7-1-48	Emission Points/Stationsary Vents/Process Vents	N/A	R5121-H	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-5	Emission Points/Stationsary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
7-1-5	Emission Points/Stationsary Vents/Process Vents	N/A	R5121-G	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-58	Emission Points/Stationsary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
7-1-58	Emission Points/Stationsary Vents/Process Vents	N/A	R5121-G	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-59	Emission Points/Stationsary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.

## Unit Summary

<b>Unit/Group/ Process ID No.</b>	<b>Unit Type</b>	<b>Group/Inclusive Units</b>	<b>SOP Index No.</b>	<b>Regulation</b>	<b>Requirement Driver</b>
7-1-59	Emission Points/Stationary Vents/Process Vents	N/A	R5121-G	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-60	Emission Points/Stationary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
7-1-60	Emission Points/Stationary Vents/Process Vents	N/A	R5121-L	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-61	Emission Points/Stationary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
7-1-61	Emission Points/Stationary Vents/Process Vents	N/A	R5121-H	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-62	Emission Points/Stationary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
7-1-62	Emission Points/Stationary Vents/Process Vents	N/A	R5121-L	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-63	Emission Points/Stationary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
7-1-63	Emission Points/Stationary Vents/Process Vents	N/A	R5121-L	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-73	Emission Points/Stationary Vents/Process Vents	N/A	R5121-P	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-73	Emission Points/Stationary Vents/Process Vents	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
7-1-75	Emission Points/Stationsary Vents/Process Vents	N/A	R111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
7-1-75	Emission Points/Stationsary Vents/Process Vents	N/A	R5121-G	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-8	Emission Points/Stationsary Vents/Process Vents	N/A	R5121-M	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-1-8	Emission Points/Stationsary Vents/Process Vents	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
7-2-101	Emission Points/Stationsary Vents/Process Vents	N/A	R5121-G	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-2-13	Emission Points/Stationsary Vents/Process Vents	N/A	R5121-G	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-2-V116	Emission Points/Stationsary Vents/Process Vents	N/A	R5121-K	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
7-2-V142	Emission Points/Stationsary Vents/Process Vents	N/A	R5121-K	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPR5FLOW	Emission Points/Stationsary Vents/Process Vents	14-1-58	R5121-L	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPR5TRE1	Emission Points/Stationsary Vents/Process Vents	14-1-56, 14-1-57, 14-1-60, 7-1-65	R5121-H	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPR5VENT	Emission Points/Stationsary Vents/Process Vents	14-1-11, 14-1-13, 14-1-16, 14-1-27, 14-1-35, 14-1-36, 14-1-38, 14-1-39, 14-1-40, 14-1-41, 14-1-44, 14-1-45,	R5121-G	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		14-1-47, 14-1-54, 14-1-61, 14-1-64, 14-1-70, 14-1-700CR/EPN, 14-1-8, 14-1-86, 7-1-101, 7-1-11, 7-1-12, 7-1-15, 7-1-16, 7-1-17, 7-1-21, 7-1-23, 7-1-26, 7-1-27, 7-1-28, 7-1-31, 7-1-32, 7-1-33, 7-1-34, 7-1-36, 7-1-37, 7-1-38, 7-1-40, 7-1-64, 7-1-80, 7-1-9, 7-1-V701A, 7-1-V704A, 7-1-V704B, 7-2-25, 7-2-V113			
HIPRESSVT	Emission Points/Stationsary Vents/Process Vents	11-1-T103, 11-1-T160, 11-1-T3	R5121-J2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
HIPRESSVT	Emission Points/Stationsary Vents/Process Vents	11-1-T103, 11-1-T160, 11-1-T3	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
LOPRESSVT	Emission Points/Stationsary Vents/Process Vents	11-1-T104, 11-1-T161	R5121-K	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
R170VENTS	Emission Points/Stationsary Vents/Process Vents	11-1-36, 11-1-37, 11-1-38, 11-1-V10, 11-1-V110A, 11-1-V120A, 11-1-V130A, 11-1-V131A, 11-1-V136, 11-1-V140, 11-1-V141, 11-1-V150A, 11-1-V1520, 11-1-V1521, 11-1-V153A, 11-1-V167, 11-1-V180, 11-1-V181A, 11-1-V181B,	R5121-K	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		11-1-V182, 11-1-V185, 11-1-V240, 11-1-V600, 11-1-V9, 7-2-V10, 7-2-V100A, 7-2-V106A, 7-2-V106E, 7-2-V107A, 7-2-V108, 7-2-V109, 7-2-V110, 7-2-V20, 7-2-V30, 7-2-V304B, 7-2-V52, 7-2-V67A, 7-2-V7A, 7-2-V8			
S260VENTS	Emission Points/Stationsary Vents/Process Vents	14-1-V1400, 14-1-V210A, 14-1-V210B, 14-1-V260, 14-1-V301B	R5121-R	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
S300VENTS	Emission Points/Stationsary Vents/Process Vents	7-1-V300, 7-1-V518-1, 7-1-V712A, 7-1-V744, 7-1-V745A1	R5121-N	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
S500VENTS	Emission Points/Stationsary Vents/Process Vents	7-1-V400A, 7-1-V410A, 7-1-V610, 7-1-V620, 7-1-V650	R5121-G	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
S625VENTS	Emission Points/Stationsary Vents/Process Vents	14-1-V910, 14-1-V920, 14-1-V930, 14-1-V950	R5121-O	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
T1160VENTS	Emission Points/Stationsary Vents/Process Vents	14-1-78, 14-1-V100, 14-1-V110, 14-1-V1105, 14-1-V121, 14-1-V132	R5121-G	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
12-1-FL170B	Flares	N/A	R1111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
12-1-FL171	Flares	N/A	R1111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
12-1-FL241	Flares	N/A	R1111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
12-1-FL241	Flares	N/A	60A	40 CFR Part 60, Subpart A	No changing attributes.
12-1-FL280	Flares	N/A	R1111-A	30 TAC Chapter 111, Visible Emissions	No changing attributes.
MON-FUG	Fugitive Emission Units	14-1-BZFUG, 7-1-BZFUG	R5352-A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
MON-FUG	Fugitive Emission Units	14-1-BZFUG, 7-1-BZFUG	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
PROAN-FUG	Fugitive Emission Units	11-1-FDIST, 11-1-FOXID, 7-2-FUG	R5352-A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
PROAN-FUG	Fugitive Emission Units	11-1-FDIST, 11-1-FOXID, 7-2-FUG	60VV-B	40 CFR Part 60, Subpart VV	No changing attributes.
PROCAP-FUG	Fugitive Emission Units	14-1-FUGS, 7-1-FUGS	R5352-A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
PROCAP-FUG	Fugitive Emission Units	14-1-FUGS, 7-1-FUGS	60VV-B	40 CFR Part 60, Subpart VV	No changing attributes.
11-1-R180	Incinerator	N/A	R7310-A	30 TAC Chapter 117, Subchapter B	No changing attributes.
11-1-RLDG	Loading/Unloading Operations	N/A	R5211-B	30 TAC Chapter 115, Loading and Unloading of VOC	TRUE VAPOR PRESSURE = True vapor pressure less than 0.5 psia.
11-1-RLDG	Loading/Unloading	N/A	R5211-B1	30 TAC Chapter 115, Loading	TRUE VAPOR



## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	Operations			and Unloading of VOC	PRESSURE = True vapor pressure greater than or equal to 0.5 psia., DAILY THROUGHPUT = Daily throughput not determined since 30 TAC § 115.217(a)(2)(A) or 30 TAC § 115.217(b)(3)(A) exemption is not utilized., CONTROL OPTIONS = Vapor balance system., VAPOR TIGHT = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected.
11-1-RLDG	Loading/Unloading Operations	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
11-1-TLDG	Loading/Unloading Operations	N/A	R5211-B	30 TAC Chapter 115, Loading and Unloading of VOC	TRUE VAPOR PRESSURE = True vapor pressure less than 0.5 psia.
11-1-TLDG	Loading/Unloading Operations	N/A	R5211-B1	30 TAC Chapter 115, Loading and Unloading of VOC	TRUE VAPOR PRESSURE = True vapor pressure greater

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					than or equal to 0.5 psia., DAILY THROUGHPUT = Daily throughput not determined since 30 TAC § 115.217(a)(2)(A) or 30 TAC § 115.217(b)(3)(A) exemption is not utilized., CONTROL OPTIONS = Vapor balance system., VAPOR TIGHT = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected.
11-1-TLDG	Loading/Unloading Operations	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
14-1-KLOAD	Loading/Unloading Operations	N/A	R5211-B	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
14-1-LOAD2	Loading/Unloading Operations	N/A	R5211-C	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
14-1-LOAD2	Loading/Unloading Operations	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
14-1-LOAD3	Loading/Unloading	N/A	R5211-B	30 TAC Chapter 115, Loading	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	Operations			and Unloading of VOC	
14-1-LOAD3	Loading/Unloading Operations	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
7-1-BENZLD	Loading/Unloading Operations	N/A	R5211-C	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
7-1-BENZLD	Loading/Unloading Operations	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
7-1-KLOAD	Loading/Unloading Operations	N/A	R5211-B	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
7-1-RLDG	Loading/Unloading Operations	N/A	R5211-B	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
7-1-RLDG	Loading/Unloading Operations	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
7-1-TLDG	Loading/Unloading Operations	N/A	R5211-B	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
7-1-TLDG	Loading/Unloading Operations	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
7-2-RLDG	Loading/Unloading Operations	N/A	R5211-B	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
7-2-RLDG	Loading/Unloading Operations	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
7-2-TLDG	Loading/Unloading	N/A	R5211-B	30 TAC Chapter 115, Loading	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	Operations			and Unloading of VOC	
7-2-TLDG	Loading/Unloading Operations	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
11-1-BR170	Process Heaters/Furnaces	N/A	R7ICI-N	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRP-CMBST	Process Heaters/Furnaces	11-1-BR300, 11-1-BR310, 11-1-BR320, 11-1-BR330, 11-1-BR340, 7-2-BR360, 7-2-BR370	R7ICI-N	30 TAC Chapter 117, Subchapter B	No changing attributes.
14-1-RLOOP	Reactor	N/A	60RRR-E	40 CFR Part 60, Subpart RRR	No changing attributes.
7-1-RLOOP	Reactor	N/A	60RRR-E	40 CFR Part 60, Subpart RRR	No changing attributes.
GRP-III	Reactor	11-1-R110A, 11-1-R120A, 11-1-R130A, 7-2-R110, 7-2-R120, 7-2-R130	60III-A	40 CFR Part 60, Subpart III	No changing attributes.
GRP-RRR	Reactor	11-1-R300, 11-1-R310, 11-1-R320A, 11-1-R330A, 11-1-R340, 7-2-R360, 7-2-R370	60RRR-D	40 CFR Part 60, Subpart RRR	No changing attributes.
11-1-D156A	Storage Tanks/Vessels	N/A	R5112-H	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
11-1-D156A	Storage Tanks/Vessels	N/A	60Kb-B	40 CFR Part 60, Subpart Kb	No changing attributes.
11-1-D181A	Storage Tanks/Vessels	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
11-1-D181B	Storage Tanks/Vessels	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
11-1-D404B	Storage Tanks/Vessels	N/A	R5112-C	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
11-1-D404B	Storage Tanks/Vessels	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
12-2-1401	Storage Tanks/Vessels	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
12-2-1402	Storage Tanks/Vessels	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
12-2-1403	Storage Tanks/Vessels	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
14-1-D210A	Storage Tanks/Vessels	N/A	61Y-A	40 CFR Part 61, Subpart Y	No changing attributes.
14-1-D210B	Storage Tanks/Vessels	N/A	61Y-A	40 CFR Part 61, Subpart Y	No changing attributes.
14-1-D602A	Storage Tanks/Vessels	N/A	R5112-C	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
7-1-D745A1	Storage Tanks/Vessels	N/A	61Y-A	40 CFR Part 61, Subpart Y	No changing attributes.
7-2-D304B	Storage Tanks/Vessels	N/A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
9-1-D193B	Storage Tanks/Vessels	N/A	R5112-E	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
9-1-D193B	Storage Tanks/Vessels	N/A	60Kb-E	40 CFR Part 60, Subpart Kb	No changing attributes.
9-1-D60B	Storage Tanks/Vessels	N/A	R5112-E	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
9-1-D60B	Storage Tanks/Vessels	N/A	60Kb-E	40 CFR Part 60, Subpart Kb	No changing attributes.
9-1-D60C	Storage Tanks/Vessels	N/A	R5112-E	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
9-1-D60C	Storage Tanks/Vessels	N/A	60Kb-E	40 CFR Part 60, Subpart Kb	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPTANK1	Storage Tanks/Vessels	11-1-D28, 7-1-D570, 7-2-D113	R5112-A	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRPTANK2	Storage Tanks/Vessels	11-1-D157A, 11-1-D157B, 11-1-D157C, 11-1-D242A, 11-1-D242B, 11-1-D252D, 7-1-D513A1, 7-1-D526P, 7-1-D526Q, 7-1-D745C, 7-1-D745D, 7-2-D21A, 7-2-D21B, 7-2-D30B, 7-2-D33A, 7-2-D33B, 7-2-D34A, 7-2-D34B, 7-2-D61	R5112-C	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRPTANK7	Storage Tanks/Vessels	11-1-D243, 11-1-D245, 12-1-D244A, 12-1-D244B, 14-1-D203A, 14-1-D203B, 14-1-D300A, 14-1-D300B, 14-1-D300C, 14-1-D344A, 14-1-D344B, 14-1-D344C, 14-1-D344D, 14-1-D701A, 14-1-D701B, 7-1-CR500A, 7-1-CR500B, 7-1-CR500C, 7-1-D526L, 7-1-D526M, 7-1-D713B, 7-1-D713C, 7-1-D745B-1, 7-2-D17, 7-2-D30C, 9-1-D60A, 9-1-D900	R5112-B	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRPTK1MON	Storage Tanks/Vessels	11-1-D114, 11-1-D116, 11-1-D400, 7-2-D2A, 7-2-D56A	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPTK2MON	Storage Tanks/Vessels	11-1-D289, 11-1-D405	63FFFF	40 CFR Part 63, Subpart FFFF	No changing attributes.
12-2-1402	Wastewater Units	N/A	R5140-C	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
12-2-1403	Wastewater Units	N/A	R5140-C	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
14-1-D806A	Wastewater Units	N/A	R5140-C	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
GRP-DW	Wastewater Units	12-2-1422, 12-2-1423, 12-2-1424	R5140-C	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-1-D806A	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2450(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
14-1-T330	EP	60NNN-C	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.660(c)(4) § 60.662(c)	Each affected facility with a total resource effectiveness (TRE) index value > 8.0 is exempt from this subpart except for § 60.662; § 60.664(d), (e), (f); and § 60.665(h) and (l).	[G]§ 60.664(e) § 60.664(f) [G]§ 60.664(f)(1) § 60.664(f)(2) § 60.664(g) § 60.664(g)(1) § 60.664(g)(2)	[G]§ 60.665(h)	§ 60.664(g)(1) § 60.665(l) § 60.665(l)(7)
14-1-T340A	EP	60NNN-C	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.660(c)(4) § 60.662(c)	Each affected facility with a total resource effectiveness (TRE) index value > 8.0 is exempt from this subpart except for § 60.662; § 60.664(d), (e), (f); and § 60.665(h) and (l).	[G]§ 60.664(e) § 60.664(f) [G]§ 60.664(f)(1) § 60.664(f)(2) § 60.664(g) § 60.664(g)(1) § 60.664(g)(2)	[G]§ 60.665(h)	§ 60.664(g)(1) § 60.665(l) § 60.665(l)(7)
14-1-T430	EP	60NNN-C	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.660(c)(4) § 60.662(c)	Each affected facility with a total resource effectiveness (TRE) index value > 8.0 is exempt from this subpart except for § 60.662; § 60.664(d), (e), (f); and § 60.665(h) and (l).	[G]§ 60.664(e) § 60.664(f) [G]§ 60.664(f)(1) § 60.664(f)(2) § 60.664(g) § 60.664(g)(1) § 60.664(g)(2)	[G]§ 60.665(h)	§ 60.664(g)(1) § 60.665(l) § 60.665(l)(7)
14-1-T510	EP	60NNN-E	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.660(c)(6)	Each affected facility operated with vent stream flow rate < 0.008 scm/min (< 0.28 scf/min) is exempt from all provisions of this	§ 60.664(h) § 60.665(l)(5)	§ 60.665(i)	§ 60.665(l) § 60.665(l)(5) § 60.665(o)



## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						subpart except requirements in §60.664(g); §60.665(i), (l)(5), (o).			
7-1-T504	EP	6oNNN-E	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.660(c)(6)	Each affected facility operated with vent stream flow rate <0.008 scm/min (< 0.28 scf/min) is exempt from all provisions of this subpart except requirements in §60.664(g); §60.665(i), (l)(5), (o).	§ 60.664(h) § 60.665(l)(5)	§ 60.665(i)	§ 60.665(l) § 60.665(l)(5) § 60.665(o)
7-1-T506	EP	6oNNN-C	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.660(c)(4) § 60.662(c)	Each affected facility with a total resource effectiveness (TRE) index value > 8.0 is exempt from this subpart except for § 60.662; § 60.664(d), (e), (f); and § 60.665(h) and (l).	[G]§ 60.664(e) § 60.664(f) [G]§ 60.664(f)(1) § 60.664(f)(2) § 60.664(g) § 60.664(g)(1) § 60.664(g)(2)	[G]§ 60.665(h)	§ 60.664(g)(1) § 60.665(l) § 60.665(l)(7)
7-1-T706	EP	6oNNN-E	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.660(c)(6)	Each affected facility operated with vent stream flow rate <0.008 scm/min (< 0.28 scf/min) is exempt from all provisions of this subpart except requirements in §60.664(g); §60.665(i), (l)(5), (o).	§ 60.664(h) § 60.665(l)(5)	§ 60.665(i)	§ 60.665(l) § 60.665(l)(5) § 60.665(o)
7-1-T707	EP	6oNNN-E	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.660(c)(6)	Each affected facility operated with vent stream flow rate <0.008 scm/min (< 0.28 scf/min) is exempt from all provisions of this subpart except requirements in §60.664(g); §60.665(i), (l)(5), (o).	§ 60.664(h) § 60.665(l)(5)	§ 60.665(i)	§ 60.665(l) § 60.665(l)(5) § 60.665(o)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-1-T907	EP	6oNNN-C	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.660(c)(4) § 60.662(c)	Each affected facility with a total resource effectiveness (TRE) index value > 8.0 is exempt from this subpart except for § 60.662; § 60.664(d), (e), (f); and § 60.665(h) and (l).	[G]§ 60.664(e) § 60.664(f) [G]§ 60.664(f)(1) § 60.664(f)(2) § 60.664(g) § 60.664(g)(1) § 60.664(g)(2)	[G]§ 60.665(h)	§ 60.664(g)(1) § 60.665(l) § 60.665(l)(7)
7-1-T909	EP	6oNNN-C	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.660(c)(4) § 60.662(c)	Each affected facility with a total resource effectiveness (TRE) index value > 8.0 is exempt from this subpart except for § 60.662; § 60.664(d), (e), (f); and § 60.665(h) and (l).	[G]§ 60.664(e) § 60.664(f) [G]§ 60.664(f)(1) § 60.664(f)(2) § 60.664(g) § 60.664(g)(1) § 60.664(g)(2)	[G]§ 60.665(h)	§ 60.664(g)(1) § 60.665(l) § 60.665(l)(7)
7-2-T285	EP	6oNNN-E	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.660(c)(6)	Each affected facility operated with vent stream flow rate <0.008 scm/min (< 0.28 scf/min) is exempt from all provisions of this subpart except requirements in §60.664(g); §60.665(i), (l)(5), (o).	§ 60.664(h) § 60.665(l)(5)	§ 60.665(i)	§ 60.665(l) § 60.665(l)(5) § 60.665(o)
GRPNNNR170	EP	6oNNN-F	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.662(a)	Affected facilities shall reduce TOC emissions by 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater.	§ 60.663(a) § 60.663(a)(1) § 60.663(a)(1)(ii) § 60.663(a)(2) § 60.664(a) § 60.664(b) § 60.664(b)(1) § 60.664(b)(2) § 60.664(b)(3) [G]§ 60.664(b)(4)	§ 60.663(a)(1) § 60.663(a)(2) § 60.665(b) [G]§ 60.665(b)(1) § 60.665(d) § 60.665(p)  ** See Alternative Requirements	§ 60.665(a) § 60.665(b) [G]§ 60.665(b)(1) § 60.665(k) § 60.665(l) § 60.665(l)(1) § 60.665(l)(2)  ** See Alternative Requirements
GRPNNS260	EP	6oNNN-D	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.660(c)(4) § 60.662(c)	Each affected facility with a total resource effectiveness (TRE) index value > 8.0 is exempt from this subpart	[G]§ 60.664(e) § 60.664(f) [G]§ 60.664(f)(1) § 60.664(f)(2)	[G]§ 60.665(h)	§ 60.664(g)(1) § 60.665(l) § 60.665(l)(7)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						except for § 60.662; § 60.664(d), (e), (f); and § 60.665(h) and (l).	§ 60.664(g) § 60.664(g)(1) § 60.664(g)(2)		
GRPNNS300	EP	60NNN-D	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.660(c)(4) § 60.662(c)	Each affected facility with a total resource effectiveness (TRE) index value > 8.0 is exempt from this subpart except for § 60.662; § 60.664(d), (e), (f); and § 60.665(h) and (l).	[G]§ 60.664(e) § 60.664(f) [G]§ 60.664(f)(1) § 60.664(f)(2) § 60.664(g) § 60.664(g)(1) § 60.664(g)(2)	[G]§ 60.665(h)	§ 60.664(g)(1) § 60.665(l) § 60.665(l)(7)
11-1-100	EP	R5121-C	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(1) § 115.122(a)(1) § 115.122(a)(1)(A)	No person may allow a vent gas stream containing VOC to be emitted from any process vent, unless the vent gas stream is burned properly in accordance with §115.122(a)(1) of this title.	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	None
11-1-100	EP	R5121-D1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(2) § 115.122(a)(2) § 115.122(a)(2)(B)	No person may allow a vent gas stream to be emitted from the processes specified in §115.121(a)(2)(A)-(E), unless the vent gas stream is controlled properly in accordance with §115.122(a)(2).	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	None
11-1-100	EP	R5121-D2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(E) [G]§ 115.122(a)(4) § 115.127(a)(4)	Any SOCM I reactor process vent gas stream which meets the requirements of §60.700(c)(2) or §60.702(c) is exempt from the requirements of §115.121(a)(2)(A).	None	None	None
11-1-100	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a) The permit holder shall comply with	The permit holder shall comply with the applicable requirements of 40 CFR	The permit holder shall comply with the applicable	The permit holder shall comply with the applicable	The permit holder shall comply with the applicable reporting

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	Part 63, Subpart FFFF	monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	requirements of 40 CFR Part 63, Subpart FFFF
11-1-101	EP	R5121-G	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
11-1-101	EP	R5121-J	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(C) [G]§ 115.122(a)(4) § 115.127(a)(4)	Any SOCM I reactor process or distillation operation vent gas stream with a flow rate < 0.011 scm/min (0.388 scf/min) or a VOC concentration < 500 ppmv is exempt from §115.121(a)(2)(A).	[G]§ 115.125 § 115.126(2) § 115.126(3)(D)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(D)	None
11-1-2	EP	R5121-J1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(2) § 115.122(a)(2) § 115.122(a)(2)(B)	No person may allow a vent gas stream to be emitted from the processes specified in §115.121(a)(2)(A)-(E), unless the vent gas stream is controlled properly in accordance with §115.122(a)(2).	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(ii) § 115.126(2)	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(ii) § 115.126(2)	None
11-1-2	EP	R5121-J2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(D) [G]§ 115.122(a)(4) § 115.127(a)(4)	Any SOCM I distillation operation vent gas stream which meets the requirements of §60.660(c)(4) or §60.662(c)	None	None	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						is exempt from the requirements of §115.121(a)(2)(A).			
11-1-2	EP	R5121-K	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(1) § 115.122(a)(1) § 115.122(a)(1)(C)	No person may allow a vent gas stream containing VOC to be emitted from any process vent, unless the vent gas stream is burned properly in accordance with §115.122(a)(1) of this title.	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(ii) § 115.126(2)	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(ii) § 115.126(2)	None
11-1-2	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
12-1-29	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
12-1-31	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
12-1-33	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
12-1-44	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
14-1-69	EP	R5121-B	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
14-1-75	EP	R5121-Q	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(C) [G]§ 115.122(a)(4) § 115.127(a)(4)	Any SOCM I reactor process or distillation operation vent gas stream with a flow rate < 0.011 scm/min (0.388 scf/min) or a VOC concentration < 500 ppmv is exempt from §115.121(a)(2)(A).	[G]§ 115.125 § 115.126(2) § 115.126(3)(D)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(D)	None
14-1-75	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
14-1-76	EP	R5121-O	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(E) [G]§ 115.122(a)(4) § 115.127(a)(4)	Any SOCM I reactor process vent gas stream which meets the requirements of §60.700(c)(2) or §60.702(c) is exempt from the requirements of §115.121(a)(2)(A).	None	None	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
14-1-76	EP	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
14-1-V600A	EP	R5121-G	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
14-1-V600B	EP	R5121-G	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
7-1-1	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These	None	None	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.			
7-1-1	EP	R5121-G	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
7-1-2	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.	None	None	None
7-1-2	EP	R5121-G	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None



## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						requirements of § 115.121(a)(1).			
7-1-3	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
7-1-3	EP	R5121-G	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
7-1-4	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
7-1-4	EP	R5121-G	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
7-1-46	EP	R5121-B	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-1-48	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.	None	None	None
7-1-48	EP	R5121-H	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(D) [G]§ 115.122(a)(4) § 115.127(a)(4)	Any SOCM I distillation operation vent gas stream which meets the requirements of §60.660(c)(4) or §60.662(c) is exempt from the requirements of §115.121(a)(2)(A).	None	None	None
7-1-5	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
7-1-5	EP	R5121-G	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of §	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						115.121(a)(1).			
7-1-58	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.	None	None	None
7-1-58	EP	R5121-G	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
7-1-59	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These	None	None	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.			
7-1-59	EP	R5121-G	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
7-1-60	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.	None	None	None
7-1-60	EP	R5121-L	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(C) [G]§ 115.122(a)(4) § 115.127(a)(4)	Any SOCMi reactor process or distillation operation vent gas stream with a flow rate < 0.011 scm/min (0.388 scf/min) or a VOC concentration < 500 ppmv	[G]§ 115.125 § 115.126(2) § 115.126(3)(D)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(D)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						is exempt from §115.121(a)(2)(A).			
7-1-61	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.	None	None	None
7-1-61	EP	R5121-H	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(D) [G]§ 115.122(a)(4) § 115.127(a)(4)	Any SOCM distillation operation vent gas stream which meets the requirements of §60.660(c)(4) or §60.662(c) is exempt from the requirements of §115.121(a)(2)(A).	None	None	None
7-1-62	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the	None	None	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.			
7-1-62	EP	R5121-L	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(C) [G]§ 115.122(a)(4) § 115.127(a)(4)	Any SOCM I reactor process or distillation operation vent gas stream with a flow rate < 0.011 scm/min (0.388 scf/min) or a VOC concentration < 500 ppmv is exempt from §115.121(a)(2)(A).	[G]§ 115.125 § 115.126(2) § 115.126(3)(D)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(D)	None
7-1-63	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.	None	None	None
7-1-63	EP	R5121-L	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(C) [G]§ 115.122(a)(4) § 115.127(a)(4)	Any SOCM I reactor process or distillation operation vent gas stream with a flow rate < 0.011 scm/min (0.388 scf/min) or a VOC	[G]§ 115.125 § 115.126(2) § 115.126(3)(D)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(D)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						concentration < 500 ppmv is exempt from §115.121(a)(2)(A).			
7-1-73	EP	R5121-P	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(E) [G]§ 115.122(a)(4) § 115.127(a)(4)	Any SOCM I reactor process vent gas stream which meets the requirements of §60.700(c)(2) or §60.702(c) is exempt from the requirements of §115.121(a)(2)(A).	None	None	None
7-1-73	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
7-1-75	EP	R111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.	None	None	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-1-75	EP	R5121-G	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
7-1-8	EP	R5121-M	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(C) [G]§ 115.122(a)(4) § 115.127(a)(4)	Any SOCM I reactor process or distillation operation vent gas stream with a flow rate < 0.011 scm/min (0.388 scf/min) or a VOC concentration < 500 ppmv is exempt from §115.121(a)(2)(A).	[G]§ 115.125 § 115.126(2) § 115.126(3)(D)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(D)	None
7-1-8	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
7-2-101	EP	R5121-G	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None



## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
7-2-13	EP	R5121-G	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
7-2-V116	EP	R5121-K	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(1) § 115.122(a)(1) § 115.122(a)(1)(C)	No person may allow a vent gas stream containing VOC to be emitted from any process vent, unless the vent gas stream is burned properly in accordance with §115.122(a)(1) of this title.	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(ii) § 115.126(2)	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(ii) § 115.126(2)	None
7-2-V142	EP	R5121-K	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(1) § 115.122(a)(1) § 115.122(a)(1)(C)	No person may allow a vent gas stream containing VOC to be emitted from any process vent, unless the vent gas stream is burned properly in accordance with §115.122(a)(1) of this title.	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(ii) § 115.126(2)	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(ii) § 115.126(2)	None
GRPR5FLOW	EP	R5121-L	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(C) [G]§ 115.122(a)(4) § 115.127(a)(4)	Any SOCM I reactor process or distillation operation vent gas stream with a flow rate < 0.011 scm/min (0.388 scf/min) or a VOC concentration < 500 ppmv is exempt from §115.121(a)(2)(A).	[G]§ 115.125 § 115.126(2) § 115.126(3)(D)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(D)	None
GRPR5TRE1	EP	R5121-H	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(D) [G]§ 115.122(a)(4) § 115.127(a)(4)	Any SOCM I distillation operation vent gas stream which meets the requirements of §60.660(c)(4) or §60.662(c) is exempt from the	None	None	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						requirements of §115.121(a)(2)(A).			
GRPR5VENT	EP	R5121-G	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
HIPRESSVT	EP	R5121-J2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(D) [G]§ 115.122(a)(4) § 115.127(a)(4)	Any SOCM I distillation operation vent gas stream which meets the requirements of §60.660(c)(4) or §60.662(c) is exempt from the requirements of §115.121(a)(2)(A).	None	None	None
HIPRESSVT	EP	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
LOPRESSVT	EP	R5121-K	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(1) § 115.122(a)(1) § 115.122(a)(1)(C)	No person may allow a vent gas stream containing VOC to be emitted from any process vent, unless the vent gas stream is burned properly in accordance with §115.122(a)(1) of this title.	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(ii) § 115.126(2)	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(ii) § 115.126(2)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
R170VENTS	EP	R5121-K	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(1) § 115.122(a)(1) § 115.122(a)(1)(C)	No person may allow a vent gas stream containing VOC to be emitted from any process vent, unless the vent gas stream is burned properly in accordance with §115.122(a)(1) of this title.	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(ii) § 115.126(2)	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(ii) § 115.126(2)	None
S260VENTS	EP	R5121-R	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
S300VENTS	EP	R5121-N	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
S500VENTS	EP	R5121-G	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
S625VENTS	EP	R5121-O	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(E) [G]§ 115.122(a)(4) § 115.127(a)(4)	Any SOCM I reactor process vent gas stream which meets the requirements of §60.700(c)(2) or §60.702(c) is exempt from the	None	None	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						requirements of §115.121(a)(2)(A).			
T1160VENTS	EP	R5121-G	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
12-1-FL170B	EU	R1111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.11(a).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
12-1-FL171	EU	R1111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.11(a).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
12-1-FL241	EU	R1111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.11(a).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
12-1-FL241	CD	60A	OPACITY	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3)	None	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)		§ 60.18(f)(4)		
12-1-FL280	EU	R1111-A	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.11(a).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
MON-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8)	No pressure relief valves (gaseous service), contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, longer than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
MON-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8)	No open-ended valves or lines, rated less than or equal to 10,000 psig and contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
MON-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet.	§ 115.352(1)(A) § 115.352(1)	No valves, rated less than or equal to 10,000 psig and	§ 115.354(1) § 115.354(10)	§ 115.352(7) § 115.354(10)	[G]§ 115.354(7)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Refinery & Petrochemicals	§ 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8)	contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	
MON-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(12)	No flanges, contacting a process fluid with a TVP of 0.044 psia or less, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
MON-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No flanges, contacting a process fluid with a TVP >0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
MON-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1)	No pump seals, contacting a process fluid with a TVP of 0.044 psia or less, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
MON-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7)	No pump seal, equipped with a shaft seal system, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
MON-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(8)	No pump seals, contacting a process fluid with a TVP >0.044 psia and not equipped with a shaft seal system, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
MON-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
MON-FUG	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2480(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
PROAN-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A)	No pressure relief valves (gaseous service), contacting a process fluid with a TVP greater than	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	0.044 psia, shall be allowed to have a VOC leak, longer than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	[G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	
PROAN-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves, rated less than or equal to 10,000 psig and contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
PROAN-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(9)	No flanges, contacting a process fluid with a TVP of 0.044 psia or less, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
PROAN-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3)	No flanges, contacting a process fluid with a TVP >0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2)	None



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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	discovery, exceeding the specified VOC concentration.	§ 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	
PROAN-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(9)	No pump seals, contacting a process fluid with a TVP of 0.044 psia or less, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
PROAN-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(9)	No pump seal, equipped with a shaft seal system, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
PROAN-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(8) § 115.357(9)	No pump seals, contacting a process fluid with a TVP >0.044 psia and not equipped with a shaft seal system, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
PROAN-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet.	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture	None	§ 115.356 § 115.356(3)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Refinery & Petrochemicals	§ 115.357(9)	disk must comply with §115.352(9) and §115.356(3)(C).		[G]§ 115.356(3)(C)	
PROAN-FUG	EU	6oVV-B	VOC	40 CFR Part 60, Subpart VV	§ 60.482-1(d)	Equipment that is in vacuum service is excluded from the requirements of §60.482-2 to §60.482-10, if it is identified as required in §60.486(e)(5).	None	§ 60.486(e) § 60.486(e)(1) § 60.486(e)(5)	None
PROAN-FUG	EU	6oVV-B	VOC	40 CFR Part 60, Subpart VV	[G]§ 60.482-2 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9	Pumps in light liquid service shall comply with the requirements outlined in § 60.482-2(a)-(f).	[G]§ 60.482-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
PROAN-FUG	EU	6oVV-B	VOC	40 CFR Part 60, Subpart VV	[G]§ 60.482-6 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9	Open-ended valves or lines shall comply with the requirements outlined in § 60.482-6(a)-(c).	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
PROAN-FUG	EU	6oVV-B	VOC	40 CFR Part 60, Subpart VV	[G]§ 60.482-7 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 [G]§ 60.483-1 [G]§ 60.483-2	Valves in gas/vapor service and in light liquid service shall comply with the requirements outlined in § 60.482-7(a)-(h).	[G]§ 60.482-7 [G]§ 60.483-1 [G]§ 60.483-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(g) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(d) § 60.487(e)
PROAN-FUG	EU	6oVV-B	VOC	40 CFR Part 60, Subpart VV	§ 60.482-4(a) § 60.482-1(a) § 60.482-1(b)	Except during pressure releases, each pressure relief device in gas/vapor	§ 60.482-4(b)(1) § 60.482-4(b)(2) § 60.485(a)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-4(b)(1) § 60.482-4(b)(2) § 60.482-4(d)(1) § 60.482-4(d)(2) [G]§ 60.482-9	service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background.	[G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f)	§ 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j)	§ 60.487(e)
PROAN-FUG	EU	60VV-B	VOC	40 CFR Part 60, Subpart VV	[G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9	Pumps in heavy liquid service shall comply with the requirements of §60.482-8(a)-(d).	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
PROAN-FUG	EU	60VV-B	VOC	40 CFR Part 60, Subpart VV	[G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9	Pressure relief devices in light-liquid service shall comply with the requirements of §60.482-8(a)-(d).	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
PROAN-FUG	EU	60VV-B	VOC	40 CFR Part 60, Subpart VV	[G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9	Pressure relief devices in heavy liquid service shall comply with the requirements of §60.482-8(a)-(d).	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
PROAN-FUG	EU	60VV-B	VOC	40 CFR Part 60, Subpart VV	[G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9	Flanges and other connectors shall comply with the requirements of §60.482-8(a)-(d).	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
PROAN-FUG	EU	60VV-B	VOC	40 CFR Part 60, Subpart VV	[G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9	Valves in heavy liquid service shall comply with the requirements of §60.482-8(a)-(d).	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
								§ 60.486(j)	
PROCAP-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8)	No pressure relief valves (gaseous service), contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, longer than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
PROCAP-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8)	No open-ended valves or lines, rated less than or equal to 10,000 psig and contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
PROCAP-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8)	No valves, rated less than or equal to 10,000 psig and contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.357(12) § 115.357(8)				
PROCAP-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(12)	No flanges, contacting a process fluid with a TVP of 0.044 psia or less, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
PROCAP-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No flanges, contacting a process fluid with a TVP >0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
PROCAP-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1)	No pump seals, contacting a process fluid with a TVP of 0.044 psia or less, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
PROCAP-FUG	EU	R5352-A	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1)	No pump seals, contacting a process fluid with a TVP >0.044 psia and not equipped with a shaft seal system, shall be allowed to have a VOC leak, for more than 15 days after discovery,	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(7) § 115.357(8)	exceeding the specified VOC concentration.		§ 115.356(3)(B) § 115.356(4)	
PROCAP-FUG	EU	6oVV-B	VOC	40 CFR Part 60, Subpart VV	§ 60.482-1(d)	Equipment that is in vacuum service is excluded from the requirements of §60.482-2 to §60.482-10, if it is identified as required in §60.486(e)(5).	None	§ 60.486(e) § 60.486(e)(1) § 60.486(e)(5)	None
PROCAP-FUG	EU	6oVV-B	VOC	40 CFR Part 60, Subpart VV	[G]§ 60.482-2 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9	Pumps in light liquid service shall comply with the requirements outlined in § 60.482-2(a)-(f).	[G]§ 60.482-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
PROCAP-FUG	EU	6oVV-B	VOC	40 CFR Part 60, Subpart VV	[G]§ 60.482-6 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9	Open-ended valves or lines shall comply with the requirements outlined in § 60.482-6(a)-(c).	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
PROCAP-FUG	EU	6oVV-B	VOC	40 CFR Part 60, Subpart VV	[G]§ 60.482-7 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 [G]§ 60.483-1 [G]§ 60.483-2	Valves in gas/vapor service and in light liquid service shall comply with the requirements outlined in § 60.482-7(a)-(h).	[G]§ 60.482-7 [G]§ 60.483-1 [G]§ 60.483-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(g) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(d) § 60.487(e)
PROCAP-FUG	EU	6oVV-B	VOC	40 CFR Part 60, Subpart VV	§ 60.482-4(a) § 60.482-1(a) § 60.482-1(b) § 60.482-4(b)(1)	Except during pressure releases, each pressure relief device in gas/vapor service shall be operated	§ 60.482-4(b)(1) § 60.482-4(b)(2) § 60.485(a) [G]§ 60.485(b)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-4(b)(2) § 60.482-4(d)(1) § 60.482-4(d)(2) [G]§ 60.482-9	with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background.	[G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(e)(4) § 60.486(j)	
PROCAP-FUG	EU	6oVV-B	VOC	40 CFR Part 60, Subpart VV	[G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9	Pumps in heavy liquid service shall comply with the requirements of §60.482-8(a)-(d).	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
PROCAP-FUG	EU	6oVV-B	VOC	40 CFR Part 60, Subpart VV	[G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9	Pressure relief devices in light-liquid service shall comply with the requirements of §60.482-8(a)-(d).	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
PROCAP-FUG	EU	6oVV-B	VOC	40 CFR Part 60, Subpart VV	[G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9	Pressure relief devices in heavy liquid service shall comply with the requirements of §60.482-8(a)-(d).	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
PROCAP-FUG	EU	6oVV-B	VOC	40 CFR Part 60, Subpart VV	[G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9	Flanges and other connectors shall comply with the requirements of §60.482-8(a)-(d).	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
PROCAP-FUG	EU	6oVV-B	VOC	40 CFR Part 60, Subpart VV	[G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9	Valves in heavy liquid service shall comply with the requirements of §60.482-8(a)-(d).	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-1-R180	EU	R7310-A	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) [G]§ 117.310(a)(16) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(f)(1) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO <sub>x</sub> emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(g) § 117.340(a) [G]§ 117.340(f)(2) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3)
11-1-RLDG	EU	R5211-B	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) [G]§ 115.212(a)(7) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
11-1-RLDG	EU	R5211-B1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(1) § 115.212(a)(1)(B) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.212(a)(3)(E)	At operations other than gasoline terminals, gasoline bulk plants, and marine terminals, vapors of VOC with a true vapor pressure of 0.5 psia or greater, must be controlled by one of the following methods.	§ 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2)	§ 115.216 § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B)	None



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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.214(a)(1)(B) § 115.214(a)(1)(C)		§ 115.215(4) § 115.215(9)		
11-1-RLDG	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2475(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
11-1-TLDG	EU	R5211-B	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) [G]§ 115.212(a)(7) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
11-1-TLDG	EU	R5211-B1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(1) § 115.212(a)(1)(B) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(E) § 115.214(a)(1)(B) § 115.214(a)(1)(C)	At operations other than gasoline terminals, gasoline bulk plants, and marine terminals, vapors of VOC with a true vapor pressure of 0.5 psia or greater, must be controlled by one of the following methods.	§ 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(9)	§ 115.216 § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B)	None
11-1-TLDG	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2475(a) The permit holder shall comply with the applicable	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and	The permit holder shall comply with the applicable recordkeeping	The permit holder shall comply with the applicable reporting requirements of 40 CFR

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF		testing requirements of 40 CFR Part 63, Subpart FFFF	requirements of 40 CFR Part 63, Subpart FFFF	Part 63, Subpart FFFF
14-1-KLOAD	EU	R5211-B	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) [G]§ 115.212(a)(7) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
14-1-LOAD2	EU	R5211-C	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(1) § 115.212(a)(1)(A) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.212(a)(3)(E) § 115.214(a)(1)(B) § 115.214(a)(1)(C)	At operations other than gasoline terminals, gasoline bulk plants, and marine terminals, vapors of VOC with a true vapor pressure of 0.5 psia or greater, must be controlled by one of the following methods.	§ 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) § 115.215(4) § 115.215(9) ** See Periodic Monitoring Summary	§ 115.216 § 115.216(1) § 115.216(1)(C) § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B)	None
14-1-LOAD2	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2475(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63,	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					Subpart FFFF				
14-1-LOAD3	EU	R5211-B	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) [G]§ 115.212(a)(7) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
14-1-LOAD3	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2475(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
7-1-BENZLD	EU	R5211-C	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(3) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.214(a)(1)(B) § 115.214(a)(1)(C)	Leak-free requirements. All land-based loading and unloading of VOC shall be conducted such that:	§ 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii)	§ 115.216 § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(iii)	None
7-1-BENZLD	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2475(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					requirements of 40 CFR Part 63, Subpart FFFF				
7-1-KLOAD	EU	R5211-B	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) [G]§ 115.212(a)(7) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
7-1-RLDG	EU	R5211-B	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) [G]§ 115.212(a)(7) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
7-1-RLDG	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2475(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
7-1-TLDG	EU	R5211-B	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) [G]§ 115.212(a)(7) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						than 0.5 psia is exempt from the requirements of this division, except as specified.			
7-1-TLDG	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2475(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
7-2-RLDG	EU	R5211-B	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) [G]§ 115.212(a)(7) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
7-2-RLDG	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2475(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
7-2-TLDG	EU	R5211-B	VOC	30 TAC Chapter 115, Loading	§ 115.217(a)(1) [G]§ 115.212(a)(7)	Vapor pressure (at land-based operations). All land-	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i)	§ 115.216 § 115.216(2)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				and Unloading of VOC	§ 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.215 § 115.215(4)	§ 115.216(3)(B)	
7-2-TLDG	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2475(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
11-1-BR170	EU	R7ICI-N	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO <sub>x</sub> emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-1-BR170	EU	R7ICI-N	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O <sub>2</sub> , dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g)	§ 117.345(a) § 117.345(f) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c)
GRP-CMBST	EU	R7ICI-N	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO <sub>x</sub> emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c)
GRP-CMBST	EU	R7ICI-N	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O <sub>2</sub> , dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g)	§ 117.345(a) § 117.345(f) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c)
14-1-RLOOP	EP	60RRR-E	VOC/TOC	40 CFR Part 60, Subpart RRR	§ 60.700(c)(2) § 60.702(c)	Each facility that has a total resource effectiveness index value > 8.0 is exempt from all provisions of this subpart except for §§60.702(c);	[G]§ 60.704(d) § 60.704(e) [G]§ 60.704(e)(1) § 60.704(e)(2) § 60.704(f)	[G]§ 60.705(g) § 60.705(t)	§ 60.704(f)(1) § 60.705(l) § 60.705(l)(1) § 60.705(l)(6)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						60.704(d), (e), and (f); and 60.705(g), (l)(1), (l)(6) and (t).	§ 60.704(f)(1) § 60.704(f)(2)		
7-1-RLOOP	EP	6oRRR-E	VOC/TOC	40 CFR Part 60, Subpart RRR	§ 60.700(c)(2) § 60.702(c)	Each facility that has a total resource effectiveness index value > 8.0 is exempt from all provisions of this subpart except for §§60.702(c); 60.704(d), (e), and (f); and 60.705(g), (l)(1), (l)(6) and (t).	[G]§ 60.704(d) § 60.704(e) [G]§ 60.704(e)(1) § 60.704(e)(2) § 60.704(f) § 60.704(f)(1) § 60.704(f)(2)	[G]§ 60.705(g) § 60.705(t)	§ 60.704(f)(1) § 60.705(l) § 60.705(l)(1) § 60.705(l)(6)
GRP-III	EP	6oIII-A	VOC/TOC	40 CFR Part 60, Subpart III	§ 60.612(a)	For each vent stream, reduce emissions of TOC by 98 wt%, or TOC concentration of 20 ppmv, dry basis corrected to 3 % O <sub>2</sub> (use less stringent). If boiler/process heater used to comply, insert vent stream in flame zone.	§ 60.613(a) § 60.613(a)(1) § 60.613(a)(1)(ii) § 60.613(a)(2) § 60.614(a) § 60.614(b) § 60.614(b)(1) § 60.614(b)(2) § 60.614(b)(3) [G]§ 60.614(b)(4)	§ 60.613(a)(1) § 60.613(a)(2) § 60.615(b) [G]§ 60.615(b)(1) § 60.615(c)(2) § 60.615(g) § 60.615(i) § 60.615(j) § 60.615(j)(1) § 60.615(j)(2)	§ 60.615(a) § 60.615(b) [G]§ 60.615(b)(1) § 60.615(c)(2) § 60.615(g) § 60.615(i) § 60.615(j) § 60.615(j)(1) § 60.615(j)(2)
GRP-RRR	EP	6oRRR-D	VOC/TOC	40 CFR Part 60, Subpart RRR	§ 60.700(c)(8)	Each facility operated with a TOC concentration in the vent stream < 300 ppmv (Method 18) or < 150 ppmv (Method 25A) is exempt, except for §60.704(h) and §60.705(j), (l)(8), and (p).	[G]§ 60.704(h) § 60.705(l)(8)	§ 60.705(j)	§ 60.705(l)(8) § 60.705(p)
11-1-D156A	EU	R5112-H	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	[G]§ 115.115(a) § 115.116(a)(3) § 115.116(a)(3)(B) § 115.116(a)(4) § 115.116(a)(5)	§ 115.116(a)(3) § 115.116(a)(3)(B) § 115.116(a)(4) § 115.116(a)(5)	None



## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
11-1-D156A	EU	60Kb-B	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(3) § 60.18	Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).	§ 60.113b(d) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b)	§ 60.115b § 60.115b(d)(2) § 60.116b(a) § 60.116b(b)	§ 60.115b § 60.115b(d)(1) § 60.115b(d)(3)
11-1-D181A	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2470(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
11-1-D181B	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2470(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
11-1-D404B	EU	R5112-C	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.117(a)(1)	Except as provided in §115.116 of this title (relating to Monitoring and Recordkeeping Requirements), any volatile organic compound (VOC) with a true vapor pressure less than 1.5 pounds per square inch absolute (psia) (10.3 kPa) at storage	§ 115.116(a)(5)	§ 115.116(a)(5) § 115.116(c)(1)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						conditions is exempt from the requirements of this division (relating to the Storage of Volatile Organic Compounds).			
11-1-D404B	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2470(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
12-2-1401	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2470(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
12-2-1402	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2470(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
12-2-1403	EU	63FFFF	112(B)	40 CFR Part 63,	§ 63.2470(a)	The permit holder shall	The permit holder	The permit holder shall	The permit holder shall

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
			HAPS	Subpart FFFF	The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
14-1-D210A	EU	61Y-A	BENZENE	40 CFR Part 61, Subpart Y	[G]§ 61.271(c) [G]§ 61.242-11(f) [G]§ 61.242-11(g) § 61.242-11(h) § 61.242-11(i) [G]§ 61.242-11(j) [G]§ 61.242-11(k) § 61.242-11(m) [G]§ 61.271(d)	The owner or operator of each affected storage vessel shall equip the vessel with a closed vent system and control device meeting the requirements as specified in §61.271(c)(1)-(4).	[G]§ 61.242-11(f) [G]§ 61.245(c) § 61.272(c)(2)	[G]§ 61.242-11(l) § 61.276(a) § 61.276(b) [G]§ 61.276(c)	[G]§ 61.272(c)(1) § 61.274(a) [G]§ 61.275(e)
14-1-D210B	EU	61Y-A	BENZENE	40 CFR Part 61, Subpart Y	§ 61.270(b)	Except for Paragraph (b) in §61.276, storage vessels with a design storage capacity less than 38 cubic meters (10,000 gallons) are exempt from the provisions of this subpart.	None	§ 61.276(b)	None
14-1-D602A	EU	R5112-C	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(a)(1) § 115.118(a)(7)	None
7-1-D745A1	EU	61Y-A	BENZENE	40 CFR Part 61, Subpart Y	[G]§ 61.271(c) [G]§ 61.242-11(f) [G]§ 61.242-11(g) § 61.242-11(h)	The owner or operator of each affected storage vessel shall equip the vessel with a closed vent system and	[G]§ 61.242-11(f) [G]§ 61.245(c) § 61.272(c)(2)	[G]§ 61.242-11(l) § 61.276(a) § 61.276(b) [G]§ 61.276(c)	[G]§ 61.272(c)(1) § 61.274(a) [G]§ 61.275(e)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 61.242-11(i) [G]§ 61.242-11(j) [G]§ 61.242-11(k) § 61.242-11(m) [G]§ 61.271(d)	control device meeting the requirements as specified in §61.271(c)(1)-(4).			
7-2-D304B	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2470(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
9-1-D193B	EU	R5112-E	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(d)(1) § 115.112(d)(2) § 115.112(d)(2)(A) § 115.112(d)(2)(B) § 115.112(d)(2)(C) § 115.112(d)(2)(D) § 115.112(d)(2)(E) [G]§ 115.112(d)(2)(H)	No person shall place, store, or hold in any stationary tank, reservoir, or other container any VOC unless such container is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere, or is equipped with at least the control device specified in either Table I(a) of subsection (a)(1) of this section for VOC other than crude oil and condensate, or Table II(a) of subsection (a)(1) of this section for crude oil and condensate.	§ 115.114(a)(1) [G]§ 115.115(a) § 115.116(a)(4) § 115.116(a)(5)	§ 115.116(a)(2) § 115.116(a)(4) § 115.116(a)(5)	§ 115.114(a)(1)
9-1-D193B	EU	60Kb-E	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4)	§ 60.115b § 60.115b(a)(2) § 60.116b(a)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.116b(b) § 60.116b(c)	§ 60.115b(a)(1) § 60.115b(a)(3)
9-1-D60B	EU	R5112-E	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(d)(1) § 115.112(d)(2) § 115.112(d)(2)(A) § 115.112(d)(2)(B) § 115.112(d)(2)(C) § 115.112(d)(2)(D) § 115.112(d)(2)(E) [G]§ 115.112(d)(2)(H)	No person shall place, store, or hold in any stationary tank, reservoir, or other container any VOC unless such container is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere, or is equipped with at least the control device specified in either Table I(a) of subsection (a)(1) of this section for VOC other than crude oil and condensate, or Table II(a) of subsection (a)(1) of this section for crude oil and condensate.	§ 115.114(a)(1) [G]§ 115.115(a) § 115.116(a)(4) § 115.116(a)(5)	§ 115.116(a)(2) § 115.116(a)(4) § 115.116(a)(5)	§ 115.114(a)(1)
9-1-D60B	EU	60Kb-E	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3)
9-1-D60C	EU	R5112-E	VOC	30 TAC Chapter	§ 115.112(d)(1)	No person shall place, store,	§ 115.114(a)(1)	§ 115.116(a)(2)	§ 115.114(a)(1)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				115, Storage of VOCs	§ 115.112(d)(2) § 115.112(d)(2)(A) § 115.112(d)(2)(B) § 115.112(d)(2)(C) § 115.112(d)(2)(D) § 115.112(d)(2)(E) [G]§ 115.112(d)(2)(H)	or hold in any stationary tank, reservoir, or other container any VOC unless such container is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere, or is equipped with at least the control device specified in either Table I(a) of subsection (a)(1) of this section for VOC other than crude oil and condensate, or Table II(a) of subsection (a)(1) of this section for crude oil and condensate.	[G]§ 115.115(a) § 115.116(a)(4) § 115.116(a)(5)	§ 115.116(a)(4) § 115.116(a)(5)	
9-1-D60C	EU	60Kb-E	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3)
GRPTANK1	EU	R5112-A	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in §115.118 of this title, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	None	§ 115.118(a)(1) § 115.118(a)(7)	None
GRPTANK2	EU	R5112-C	VOC	30 TAC Chapter 115, Storage of	§ 115.117(a)(1)	Except as provided in §115.116 of this title	§ 115.116(a)(5)	§ 115.116(a)(5) § 115.116(c)(1)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				VOCs		(relating to Monitoring and Recordkeeping Requirements), any volatile organic compound (VOC) with a true vapor pressure less than 1.5 pounds per square inch absolute (psia) (10.3 kPa) at storage conditions is exempt from the requirements of this division (relating to the Storage of Volatile Organic Compounds).			
GRPTANK7	EU	R5112-B	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.117(a)(1)	Except as provided in §115.116 of this title (relating to Monitoring and Recordkeeping Requirements), any volatile organic compound (VOC) with a true vapor pressure less than 1.5 pounds per square inch absolute (psia) (10.3 kPa) at storage conditions is exempt from the requirements of this division (relating to the Storage of Volatile Organic Compounds).	§ 115.116(a)(5)	§ 115.116(a)(5) § 115.116(c)(1)	None
GRPTK1MON	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2470(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPTK2MON	EU	63FFFF	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2470(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
12-2-1402	EU	R5140-C	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148	The wastewater component shall meet the specified control requirements.	[G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(H) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	[G]§ 115.142(1)(H) § 115.144(3)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None
12-2-1403	EU	R5140-C	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148	The wastewater component shall meet the specified control requirements.	[G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(H) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7)	[G]§ 115.142(1)(H) § 115.144(3)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None



## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 115.145(9) [G]§ 115.148		
14-1-D806A	EU	R5140-C	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148	The wastewater component shall meet the specified control requirements.	[G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(H) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	[G]§ 115.142(1)(H) § 115.144(3)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None
GRP-DW	EU	R5140-C	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148	The wastewater component shall meet the specified control requirements.	[G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(H) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	[G]§ 115.142(1)(H) § 115.144(3)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None

**Additional Monitoring Requirements**

**Periodic Monitoring Summary..... 89**

## Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 12-1-29, 12-1-31, 12-1-33, 12-1-44, 7-1-3, 7-1-4, 7-1-5	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R111-A
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per quarter	
Averaging Period: n/a	
<p>Deviation Limit: There shall be no visible emissions. If visible emissions are observed, the permit holder shall either report a deviation or a Test Method 9 may be performed and opacity shall not exceed 30%.</p>	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 14-1-LOAD2	
Control Device ID No.: 14-1-S260	Control Device Type: Absorber (Direct Absorption)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Loading and Unloading of VOC	SOP Index No.: R5211-C
Pollutant: VOC	Main Standard: § 115.212(a)(1)
Monitoring Information	
Indicator: Liquid circulation rate	
Minimum Frequency: Every 15 minutes	
Averaging Period: 1 hr.	
Deviation Limit: Liquid adsorbent circulation rate below 3400 lbs/hr.	
Periodic Monitoring Text: Measure and record the liquid adsorbent circulation rate. Establish a minimum liquid circulation rate using the most recent performance test, manufacturer's recommendations, engineering calculations, or historical data. The monitoring instrumentation shall be maintained, calibrated, and operated using manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

Unit/Group/Process Information	
ID No.: 14-1-LOAD2	
Control Device ID No.: 14-1-S260	Control Device Type: Absorber (Direct Absorption)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Loading and Unloading of VOC	SOP Index No.: R5211-C
Pollutant: VOC	Main Standard: § 115.212(a)(1)
Monitoring Information	
Indicator: Liquid adsorption temperature	
Minimum Frequency: Every 15 minutes	
Averaging Period: 1 hr.	
Deviation Limit: Liquid temperature shall not exceed 60 degrees C.	
Periodic Monitoring Text: Measure and record the liquid adsorbent temperature. Establish a maximum liquid temperature using the most recent performance test, manufacturer's recommendations, engineering calculations, or historical data. The monitoring instrumentation shall be maintained, calibrated, and operated using manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.	

**Permit Shield**

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## Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
14-1-K520	N/A	40 CFR Part 60, Subpart NNN	Kettles designed and operated as batch operation.
14-1-K520	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
14-1-K530	N/A	40 CFR Part 60, Subpart NNN	Kettles designed and operated as batch operation.
14-1-K530	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
14-1-T1140	N/A	40 CFR Part 60, Subpart NNN	Distillation tower venting back into the process.
14-1-T510	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
7-1-K500A	N/A	40 CFR Part 60, Subpart NNN	Kettles designed and operated as batch operation.
7-1-K500D	N/A	40 CFR Part 60, Subpart NNN	Kettles designed and operated as batch operation.
7-1-T700A	N/A	40 CFR Part 60, Subpart NNN	Distillation tower venting back into the process.
GRP-DRYER	14-1-DR601, 7-1-DR400	40 CFR Part 60, Subpart PP	Ammonium sulfate dryer not modified after February 4, 1980.
7-1-1	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
7-1-2	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
7-1-3	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.

## Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
7-1-4	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
7-1-48	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
7-1-5	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
7-1-58	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
7-1-59	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
7-1-60	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
7-1-61	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
7-1-62	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
7-1-63	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
7-1-75	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.

## Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
7-2-13	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
GRPR5FLOW	14-1-58	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
GRPR5TRE1	14-1-56, 14-1-57, 14-1-60, 7-1-65	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
GRPR5VENT	14-1-11, 14-1-13, 14-1-16, 14-1-27, 14-1-35, 14-1-36, 14-1-38, 14-1-39, 14-1-40, 14-1-41, 14-1-44, 14-1-45, 14-1-47, 14-1-54, 14-1-61, 14-1-64, 14-1-70, 14-1-700CR/EPN, 14-1-8, 14-1-86, 7-1-101, 7-1-11, 7-1-12, 7-1-15, 7-1-16, 7-1-17, 7-1-21, 7-1-23, 7-1-26, 7-1-27, 7-1-28, 7-1-31, 7-1-32, 7-1-33, 7-1-34, 7-1-36, 7-1-37, 7-1-38, 7-1-40, 7-1-64, 7-1-80, 7-1-9, 7-1-V701A, 7-1-V704A, 7-1-V704B, 7-2-25, 7-2-V113	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.



## Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
LOPRESSVT	11-1-T104, 11-1-T161	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
R170VENTS	11-1-36, 11-1-37, 11-1-38, 11-1-V10, 11-1-V110A, 11-1-V120A, 11-1-V130A, 11-1-V131A, 11-1-V136, 11-1-V140, 11-1-V141, 11-1-V150A, 11-1-V1520, 11-1-V1521, 11-1-V153A, 11-1-V167, 11-1-V180, 11-1-V181A, 11-1-V181B, 11-1-V182, 11-1-V185, 11-1-V240, 11-1-V600, 11-1-V9, 7-2-V10, 7-2-V100A, 7-2-V106A, 7-2-V106E, 7-2-V107A, 7-2-V108, 7-2-V109, 7-2-V110, 7-2-V116, 7-2-V142, 7-2-V20, 7-2-V30, 7-2-V304B, 7-2-V52, 7-2-V67A, 7-2-V7A, 7-2-V8	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
T1160VENTS	14-1-78, 14-1-V100, 14-1-V110, 14-1-V1105, 14-1-V121, 14-1-V132	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.

## Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
12-1-FL170B	N/A	40 CFR Part 60, Subpart A	Flare is not used to comply with NSPS or NESHAP regulations.
12-1-FL171	N/A	40 CFR Part 60, Subpart A	Flare is not used to comply with NSPS or NESHAP regulations.
12-1-FL280	N/A	40 CFR Part 60, Subpart A	Flare is not used to comply with NSPS or NESHAP regulations.
11-1-FNH3	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	Fugitive components in ammonia service contain less than 10% VOC
11-1-FNH3	N/A	40 CFR Part 60, Subpart VV	Ammonia fugitive source exempt from NSPS fugitive monitoring
MON-FUG	14-1-BZFUG, 7-1-BZFUG	40 CFR Part 60, Subpart VV	Compliance with MACT FFFF constitutes compliance with NSPS VV and NESHAP V.
MON-FUG	14-1-BZFUG, 7-1-BZFUG	40 CFR Part 61, Subpart V	Compliance with MACT FFFF constitutes compliance with NSPS VV and NESHAP V.
11-1-CT1100	N/A	40 CFR Part 63, Subpart Q	Cooling tower has not used chromium based water treatment since 1984
11-1-D252A	N/A	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.
11-1-D252A	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
11-1-D252B	N/A	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.
11-1-D252B	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.

## Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
11-1-D252C	N/A	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.
11-1-D252C	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
11-1-R10	N/A	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.
12-1-CT20	N/A	40 CFR Part 63, Subpart Q	Cooling tower has not used chromium based water treatment since 1984
12-1-CT30	N/A	40 CFR Part 63, Subpart Q	Cooling tower has not used chromium based water treatment since 1984.
14-1-ASLD	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Source does not load VOCS
14-1-CT30	N/A	40 CFR Part 63, Subpart Q	Cooling tower has not used chromium based water treatment since 1984
14-1-D1400	N/A	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.
14-1-D930	N/A	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.
14-1-HW310	N/A	30 TAC Chapter 115, Industrial Wastewater	Wastewater stream has a VOC concentration < 1000 ppmw.
14-1-HW410	N/A	30 TAC Chapter 115, Industrial Wastewater	Wastewater stream has a VOC concentration < 1000 ppmw.
14-1-HW410	N/A	40 CFR Part 63, Subpart FFFF	Storage vessel stores organic liquids that contain HAP only as impurities.

## Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
14-1-HW430	N/A	30 TAC Chapter 115, Industrial Wastewater	Wastewater stream has a VOC concentration < 1000 ppmw.
14-1-HW430	N/A	40 CFR Part 63, Subpart FFFF	Wastewater has an annual concentration of applicable HAP compounds < 5ppmw.
14-1-HW600	N/A	30 TAC Chapter 115, Industrial Wastewater	Wastewater stream has a VOC concentration < 1000 ppmw.
14-1-HW600	N/A	40 CFR Part 63, Subpart FFFF	Wastewater has an annual concentration of applicable HAP compounds < 5ppmw.
14-1-HW720	N/A	30 TAC Chapter 115, Industrial Wastewater	Wastewater stream has a VOC concentration < 1000 ppmw.
14-1-HW720	N/A	40 CFR Part 63, Subpart FFFF	Wastewater has an annual concentration of applicable HAP compounds < 5ppmw.
7-1-ASLD	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Source does not load VOCS
7-1-CR410A	N/A	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.
7-1-CT700	N/A	40 CFR Part 63, Subpart Q	Cooling tower has not used chromium based water treatment since 1984
7-1-D409	N/A	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.
7-1-D909	N/A	30 TAC Chapter 115, Industrial	Wastewater stream has a VOC concentration < 1000 ppmv.

## Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
		Wastewater	
7-1-D909	N/A	40 CFR Part 63, Subpart FFFF	Wastewater has an annual concentration of applicable HAP compounds < 5ppmw.
7-1-HW400	N/A	30 TAC Chapter 115, Industrial Wastewater	Wastewater stream has a VOC concentration < 1000 ppmw.
7-1-HW400	N/A	40 CFR Part 63, Subpart FFFF	Wastewater has an annual concentration of applicable HAP compounds < 5ppmw.
7-1-HW500	N/A	30 TAC Chapter 115, Industrial Wastewater	Wastewater stream has a VOC concentration < 1000 ppmw.
7-1-HW500	N/A	40 CFR Part 63, Subpart FFFF	Wastewater has an annual concentration of applicable HAP compounds < 5ppmw.
7-1-HW504	N/A	30 TAC Chapter 115, Industrial Wastewater	Wastewater stream has a VOC concentration < 1000 ppmw.
7-1-HW504	N/A	40 CFR Part 63, Subpart FFFF	Wastewater has an annual concentration of applicable HAP compounds < 5ppmw.
7-1-HW505	N/A	30 TAC Chapter 115, Industrial Wastewater	Wastewater stream has a VOC concentration < 1000 ppmw.
7-1-HW505	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
7-1-HW705	N/A	30 TAC Chapter 115, Industrial	Wastewater stream has a VOC concentration < 1000 ppmw.

## Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
		Wastewater	
7-1-HW705	N/A	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
7-1-HW803	N/A	30 TAC Chapter 115, Industrial Wastewater	Wastewater stream has a VOC concentration < 1000 ppmw.
7-1-HW803	N/A	40 CFR Part 63, Subpart FFFF	Wastewater has an annual concentration of applicable HAP compounds < 5ppmw.
GRPTANK3	11-1-D136, 11-1-D1521, 11-1-D167, 11-1-D180, 11-1-D182, 11-1-D185, 11-1-D600, 11-1-D9, 11-1-HW240, 14-1-D100, 14-1-D110, 14-1-D1105, 14-1-D1202, 14-1-D132, 14-1-D400, 14-1-D500, 14-1-D523, 14-1-D606, 14-1-D910, 14-1-D920, 14-1-D950, 7-1-D300, 7-1-D518-1, 7-1-D523A, 7-1-D525A2, 7-1-D529, 7-1-D534, 7-1-D610, 7-1-D620, 7-1-D630, 7-1-D650, 7-1-D700C, 7-1-D701A, 7-1-D702,	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.

## Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
	7-1-D705, 7-1-D712A, 7-1-D723A, 7-1-D724, 7-1-D725A2, 7-1-D734, 7-1-D744, 7-2-D10, 7-2-D100A, 7-2-D106A, 7-2-D106E, 7-2-D107A, 7-2-D108, 7-2-D109, 7-2-D110, 7-2-D28, 7-2-D52, 7-2-D67A, 7-2-D7A, 7-2-D8, 7-2-R20, 7-2-R30		
GRPTANK3	11-1-D136, 11-1-D1521, 11-1-D167, 11-1-D180, 11-1-D182, 11-1-D185, 11-1-D600, 11-1-D9, 11-1-HW240, 14-1-D100, 14-1-D110, 14-1-D1105, 14-1-D1202, 14-1-D132, 14-1-D400, 14-1-D500, 14-1-D523, 14-1-D606, 14-1-D910, 14-1-D920, 14-1-D950, 7-1-D300, 7-1-D518-1, 7-1-D523A, 7-1-D525A2, 7-1-D529, 7-1-D534, 7-1-D610, 7-1-D620, 7-1-D630,	40 CFR Part 63, Subpart FFFF	Storage vessel stores organic liquids that contain HAP only as impurities.

## Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
	7-1-D650, 7-1-D700C, 7-1-D701A, 7-1-D702, 7-1-D705, 7-1-D712A, 7-1-D723A, 7-1-D724, 7-1-D725A2, 7-1-D734, 7-1-D744, 7-2-D10, 7-2-D100A, 7-2-D106A, 7-2-D106E, 7-2-D107A, 7-2-D108, 7-2-D109, 7-2-D110, 7-2-D28, 7-2-D52, 7-2-D67A, 7-2-D7A, 7-2-D8, 7-2-R20, 7-2-R30		
GRPTANK4	11-1-D110A, 11-1-D120A, 11-1-D130A, 11-1-D131A, 11-1-D140, 11-1-D141, 11-1-D150A, 11-1-D1520, 11-1-D153A, 14-1-D204, 14-1-D260, 14-1-D602B, 14-1-D630B, 14-1-D711, 7-1-D400, 7-1-D508, 7-1-D708-1, 7-2-D189	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.
GRPTANK4	11-1-D110A, 11-1-D120A, 11-1-D130A, 11-1-D131A, 11-1-D140, 11-1-D141,	40 CFR Part 63, Subpart FFFF	Storage vessel stores organic liquids that contain HAP only as impurities.



## Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
	11-1-D150A, 11-1-D1520, 11-1-D153A, 14-1-D204, 14-1-D260, 14-1-D602B, 14-1-D630B, 14-1-D711, 7-1-D400, 7-1-D508, 7-1-D708-1, 7-2-D189		
GRPTANK5	14-1-CR600A, 14-1-CR600B, 14-1-D205, 14-1-D601	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.
GRPTANK5	14-1-CR600A, 14-1-CR600B, 14-1-D205, 14-1-D601	40 CFR Part 63, Subpart FFFF	Storage vessel stores organic liquids that contain HAP only as impurities.
GRPTANK6	14-1-CR710B, 14-1-D121, 14-1-D301B, 14-1-D343B, 14-1-D700, 14-1-D710, 7-1-CR400A, 7-1-D509, 7-1-D511, 7-1-D540, 7-1-D600, 7-1-D704A, 7-1-D704B, 7-1-D709, 7-1-D711	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.
GRPTANK6	14-1-CR710B, 14-1-D121, 14-1-D301B, 14-1-D343B, 14-1-D700, 14-1-D710, 7-1-CR400A, 7-1-D509,	40 CFR Part 63, Subpart FFFF	Storage vessel stores organic liquids that contain HAP only as impurities.

## Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
	7-1-D511, 7-1-D540, 7-1-D600, 7-1-D704A, 7-1-D704B, 7-1-D709, 7-1-D711		
11-1-BR170	N/A	30 TAC Chapter 112, Sulfur Compounds	Burner is not liquid fuel-fired.
GRP-CMBST	11-1-BR300, 11-1-BR310, 11-1-BR320, 11-1-BR330, 11-1-BR340, 7-2-BR360, 7-2-BR370	30 TAC Chapter 112, Sulfur Compounds	Gas fired combustion only.
GRP-CMBST	11-1-BR300, 11-1-BR310, 11-1-BR320, 11-1-BR330, 11-1-BR340, 7-2-BR360, 7-2-BR370	40 CFR Part 63, Subpart FFFF	Continuous process vent gas stream contains < 0.005 weight percent total organic HAP at the point of discharge.
11-1-D181A	N/A	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.
11-1-D181B	N/A	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.
14-1-D210A	N/A	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.
14-1-D210B	N/A	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.
7-1-D745A1	N/A	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.
7-2-D304B	N/A	40 CFR Part 60, Subpart Kb	Process tank is not a storage vessel as defined by 60.111b.

## Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
9-1-D60B	N/A	40 CFR Part 63, Subpart FFFF	Storage vessel stores organic liquids that contain HAP only as impurities.
9-1-D60C	N/A	40 CFR Part 63, Subpart FFFF	Storage vessel stores organic liquids that contain HAP only as impurities.
GRPTANK1	11-1-D28, 7-1-D570, 7-2-D113	40 CFR Part 60, Subpart Kb	Storage vessel capacity is < 75m3.
GRPTANK1	11-1-D28, 7-1-D570, 7-2-D113	40 CFR Part 63, Subpart FFFF	Storage vessel stores organic liquids that contain HAP only as impurities.
GRPTANK2	11-1-D157A, 11-1-D157B, 11-1-D157C, 11-1-D242A, 11-1-D242B, 11-1-D252D, 7-1-D513A1, 7-1-D526P, 7-1-D526Q, 7-1-D745C, 7-1-D745D, 7-2-D21A, 7-2-D21B, 7-2-D30B, 7-2-D33A, 7-2-D33B, 7-2-D34A, 7-2-D34B, 7-2-D61	40 CFR Part 60, Subpart Kb	Storage vessel capacity is < 75m3.
GRPTANK2	11-1-D157A, 11-1-D157B, 11-1-D157C, 11-1-D242A, 11-1-D242B, 11-1-D252D, 7-1-D513A1, 7-1-D526P, 7-1-D526Q, 7-1-D745C, 7-1-D745D, 7-2-D21A,	40 CFR Part 63, Subpart FFFF	Vessel stores organic liquids that contain HAP only as impurities.

## Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
	7-2-D21B, 7-2-D30B, 7-2-D33A, 7-2-D33B, 7-2-D34A, 7-2-D34B, 7-2-D61		
GRPTANK7	11-1-D243, 11-1-D245, 12-1-D244A, 12-1-D244B, 14-1-D203A, 14-1-D203B, 14-1-D300A, 14-1-D300B, 14-1-D300C, 14-1-D344A, 14-1-D344B, 14-1-D344C, 14-1-D344D, 14-1-D701A, 14-1-D701B, 7-1-CR500A, 7-1-CR500B, 7-1-CR500C, 7-1-D526L, 7-1-D526M, 7-1-D713B, 7-1-D713C, 7-1-D745B-1, 7-2-D17, 7-2-D30C, 9-1-D60A, 9-1-D900	40 CFR Part 63, Subpart FFFF	Storage vessel stores organic liquids that contain HAP only as impurities.

**New Source Review Authorization References**

**New Source Review Authorization References ..... 108**

**New Source Review Authorization References by Emission Unit..... 109**

## **New Source Review Authorization References**

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

<b>Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.</b>	
Authorization No.: 1445A	Issuance Date: 12/16/2013
Authorization No.: 1733A	Issuance Date: 07/02/2014
<b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>	
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.264	Version No./Date: 09/04/2000
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.478	Version No./Date: 09/04/2000
Number: 106.492	Version No./Date: 03/14/1997

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
11-1-100	FLARE, R180 EMISSION POINT	1733A
11-1-101	INCINERATOR, R350A EMISSION POINT	1733A
11-1-2	INCINERATOR, R170 EMISSION POINT	1733A, 106.261/11/01/2003, 106.262/11/01/2003
11-1-36	EMISSION POINT - D252A	1733A
11-1-37	EMISSION POINT - D252B	1733A
11-1-38	EMISSION POINT - D252C	1733A
11-1-BARGE	ANOLON BARGE LOADING	1733A
11-1-BR170	FLUE GAS HEATER FOR R-170	1733A
11-1-BR300	R-300 METHANE BURNER	1733A
11-1-BR310	B-310 METHANE BURNER	1733A
11-1-BR320	R-320 METHANE BURNER	1733A
11-1-BR330	R-330 METHANE BURNER	1733A
11-1-BR340	R-340 METHANE BURNER	1733A
11-1-CT1100	CYCLOHEXANONE 2 COOLING TOWER	1733A
11-1-D110A	REACTOR VENT GAS KNOCK-OUT DRUM	1733A
11-1-D114	CONCENTRATED COBALT OCTUATE TANK	1733A
11-1-D116	DILUTE COBALT OCTUATE TANK	1733A
11-1-D120A	SECOND REACTOR PRODUCT SEPARATOR	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
11-1-D130A	THIRD REACTOR PRODUCT SEPARATOR	1733A
11-1-D131A	OXIDATION REACTOR SEPARATOR DRUM	1733A
11-1-D136	VENT CONDENSIBLE DRUM	1733A
11-1-D140	REACTOR PRODUCT WASH SEPARATOR	1733A
11-1-D141	REACTOR PRODUCT WASH SEPARATOR	1733A
11-1-D150A	DEWATERING DRUM FOR CYCLOHEXANE RECOVERY	1733A
11-1-D1520	T154/1520 CROSS-EXCHANGE RECEIVER	1733A
11-1-D1521	T-1520 O.H. CONDENSER RECEIVER	1733A
11-1-D153A	OXIDATION FEED DRUM	1733A
11-1-D156A	CRUDE ANONE STORAGE TANK	1733A, 106.261/11/01/2003, 106.262/11/01/2003
11-1-D157A	SALES HEAVIES STORAGE	1733A
11-1-D157B	OFF-SPEC ANOLON STORAGE	1733A
11-1-D157C	D'ANONE STORAGE TANK	1733A
11-1-D167	WASHOIL AND BRING BACK DRUM	1733A
11-1-D180	ACID WATER FLASH DRUM	1733A
11-1-D181A	CAUSTIC WATER FLASH DRUM	1733A
11-1-D181B	CAUSTIC WATER FLASH DRUM	1733A
11-1-D182	ACID WATER STRIPPER O.H. DRUM	1733A



### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
11-1-D185	CAUSTIC AND ACID WATER O.H. RECEIVER	1733A
11-1-D242A	CYCLOHEXANONE CHECK TANK	1733A
11-1-D242B	CYCLOHEXANONE CHECK TANK	1733A
11-1-D243	CYCLOHEXANONE STORAGE TANK	1733A
11-1-D245	CYCLOHEXANONE TANK	1733A, 106.261/11/01/2003, 106.262/11/01/2003, 106.472/09/04/2000
11-1-D252A	DEHYDROGENATION FEED STORAGE TANK	1733A
11-1-D252B	DEHYDROGENATION FEED STORAGE TANK	1733A
11-1-D252C	DEHYDROGENATION FEED STORAGE TANK	1733A
11-1-D252D	OFF-SPEC ANOLON STORAGE	1733A
11-1-D289	HEAVIES CRACKING FEED TANK	1733A
11-1-D28	CO-PRODUCT STORAGE DRUM	1733A
11-1-D400	ORGANIC WASTE AND LIGHTS STORAGE TANK	1733A
11-1-D404B	CYCLOHEXANONE HEAVIES STORAGE DRUM D-404B	1733A
11-1-D405	LIGHTS (EP-316) STORAGE	1733A
11-1-D600	EV-600 LIQUID-VAPOR SEPARATOR (OLD D103)	1733A
11-1-D9	KO DRUM FOR HIGH PRESSURE VENT GAS	1733A
11-1-FDIST	DISTILLATION FUGITIVES	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
11-1-FNH3	AMMONIA FUGITIVES	1733A, 106.261/11/01/2003, 106.262/11/01/2003
11-1-FOXID	OXIDATION AREA FUGITIVES	1733A
11-1-HW240	EJECTOR WATER SEAL LEG DRUM	1733A
11-1-R10	CYCLOHEXANE SURGE DRUM	1733A
11-1-R110A	CYCLOHEXANE REACTOR	1733A
11-1-R120A	CYCLOHEXANE REACTOR	1733A
11-1-R130A	CYCLOHEXANE REACTOR	1733A
11-1-R170	CATALYTIC REACTOR	1733A, 106.261/11/01/2003, 106.262/11/01/2003
11-1-R180	EMERGENCY ENCLOSED FLARE	1733A
11-1-R300	DEHYDROGENATION REACTOR	1733A
11-1-R310	DEHYDROGENATION REACTOR	1733A
11-1-R320A	DEHYDROGENATION REACTOR (TAG READS R310A)	1733A
11-1-R330A	DEHYDROGENATION REACTOR (OLD R320)	1733A
11-1-R340	DEHYRO REACTOR	1733A
11-1-RLDG	RAILCAR LOADING	1733A
11-1-T103	CYCLOHEXANONE 1 HIGH PRESSURE VENT SCRUBBING TOWER	1733A
11-1-T104	ANONE 1 LOW PRESSURE VENT	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
11-1-T140	CAUSTIC WATER STRIPPER	1733A
11-1-T151	PRESSURE CYCLOHEXANE RECOVERY TOWER	1733A
11-1-T1520	THIRD C'ANE RECOVERY TOWER	1733A
11-1-T152	VACUUM CYCLOHEXANE RECOVERY TOWER	1733A
11-1-T153A	CYCLOHEXANE STRIPPING TOWER	1733A
11-1-T154	SECOND CYCLOHEXANE RECOVERY TOWER	1733A
11-1-T160	CYCLOHEXANONE 2 HIGH PRESSURE VENT SCRUBBING TOWER	1733A
11-1-T161	ANONE 2 LOW PRESSURE VENT	1733A, 106.261/11/01/2003, 106.262/11/01/2003
11-1-T180	ACID WATER STRIPPER (OLD T104)	1733A
11-1-T210A	CYCLOHEXANONE FINISHING TOWER	1733A
11-1-T220	CYCLOHEXANONE FINISHING	1733A
11-1-T225	2-METHYL CYCLOHEXANONE PURGE TOWER	1733A
11-1-T230	FORERUNS TOWER	1733A
11-1-T240	FIRST CYCLOHEXANOL TOWER	1733A
11-1-T250	SECOND CYCLOHEXANOL TOWER	1733A
11-1-T290	HEAVIES CRACKING STRIPPING TOWER	1733A
11-1-T3	CYCLOHEXANONE 1 HIGH PRESSURE VENT SCRUBBING	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
	TOWER	
11-1-TLDG	TRUCK LOADING	1733A
11-1-V10	CYCLOHEXANE SURGE DRUM	1733A
11-1-V110A	REACTOR VENT GAS KNOCK-OUT DRUM VENT	1733A
11-1-V120A	SECOND REACTOR PRODUCT SEPARATOR VENT	1733A
11-1-V130A	THIRD REACTOR PRODUCT SEPARATOR VENT	1733A
11-1-V131A	OXIDATION REACTOR SEPARATOR DRUM VENT	1733A
11-1-V136	VENT CONDENSIBLE DRUM VENT	1733A
11-1-V140	REACTOR PRODUCT WASH SEPARATOR VENT	1733A
11-1-V141	REACTOR PRODUCT WASH SEPARATOR VENT	1733A
11-1-V150A	DEWATERING DRUM FOR CYCLOHEXANE RECOVERY VENT	1733A
11-1-V1520	T154/1520 CROSS-EXCHANGE RECEIVER VENT	1733A
11-1-V1521	T154 OH CONDENSER RECEIVER VENT	1733A
11-1-V153A	OXIDATION FEED DRUM VENT	1733A
11-1-V167	WASHOIL AND BRING BACK DRUM VENT	1733A
11-1-V180	ACID WATER FLASH DRUM VENT	1733A
11-1-V181A	CAUSTIC WATER FLASH DRUM VENT	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
11-1-V181B	CAUSTIC WATER FLASH DRUM VENT	1733A
11-1-V182	ACID WATER STRIPPER O.H. DRUM VENT	1733A
11-1-V185	CAUSTIC AND ACID WATER O.H. RECEIVER VENT	1733A
11-1-V240	EJECTOR WATER SEAL LEG DRUM VENT	1733A
11-1-V600	EV-600 LIQUID-VAPOR SEPARATOR (OLD D103) VENT	1733A
11-1-V9	KO DRUM FOR HIGH PRESSURE VENT GAS VENT	1733A
1-1-BARGE	CAPRO BARGE LOADING	1733A
12-1-29	CATALYTIC CONVERTER VENT	1733A
12-1-31	CATALYST OVEN VENT	1733A
12-1-33	CATALYST OVEN VENT	1733A
12-1-44	CATALYST TRANSFER SYSTEM VENT	1733A
12-1-CT20	BURNER COOLING TOWER	1733A
12-1-CT30	KETTLE COOLING TOWER	1733A
12-1-D244A	CYCLOHEXANONE TANK	1733A, 106.261/11/01/2003, 106.262/11/01/2003, 106.472/09/04/2000
12-1-D244B	CYCLOHEXANONE TANK	1733A, 106.261/11/01/2003, 106.262/11/01/2003, 106.472/09/04/2000
12-1-FL170B	BURNER FLARE #1	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
12-1-FL171	BURNER FLARE #2	1733A
12-1-FL241	AMMONIA FLARE	1733A
12-1-FL280	VENT FLARE	1733A
12-2-1401	D-1401 DEEP WELL STORAGE DRUM	1733A, 106.261/11/01/2003, 106.262/11/01/2003
12-2-1402	D-1402 DEEP WELL STORAGE DRUM	1733A, 106.261/11/01/2003, 106.262/11/01/2003
12-2-1403	FINISHING TANK D-1403	1733A, 106.261/11/01/2003, 106.262/11/01/2003
12-2-1422	HAZ WASTE DRUM	1733A
12-2-1423	HAZ WASTE DRUM	1733A
12-2-1424	F1521 FILTER VAT DRUM	1733A, 106.261/11/01/2003, 106.262/11/01/2003
14-1-11	EMISSION POINT - D600	1733A
14-1-13	EMISSION POINT - D602B	1733A
14-1-16	EMISSION POINT - D711	1733A
14-1-27	EMISSION POINT - D205	1733A
14-1-35	EMISSION POINT - D343B	1733A
14-1-36	EMISSION POINT - D400	1733A
14-1-38	EMISSION POINT - D500	1733A
14-1-39	EMISSION POINT - D523	1733A
14-1-40	EMISSION POINT - D601	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
14-1-41	EMISSION POINT - D606	1733A
14-1-44	EMISSION POINT - D630B	1733A
14-1-45	EMISSION POINT - D700	1733A
14-1-47	EMISSION POINT - D710	1733A
14-1-54	EMISSION POINT - D140	1733A
14-1-56	EMISSION POINT - T330	1733A
14-1-57	EMISSION POINT - T340A	1733A
14-1-58	EMISSION POINT - T510	1733A
14-1-60	EMISSION POINT - T430	1733A
14-1-61	EMISSION POINT - K520	1733A
14-1-64	EMISSION POINT - EV720	1733A
14-1-69	EMISSION POINT - S601	1733A
14-1-700CR/EPN	EMISSION POINT - CR 700/710/720	1733A
14-1-70	EMISSION POINT - K530	1733A
14-1-75	EMISSION POINT - S260; BENZENE SCRUBBER	1733A
14-1-76	EMISSION POINT - S625	1733A
14-1-78	EMISSION POINT - T1160	1733A
14-1-86	EMISSION POINT - TRAIL	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
14-1-8	LACTAM SEPARATION DRUM VENT	1733A
14-1-ASLD	AMMONIUM SULFATE LOADING	1733A
14-1-BZFUG	CAPROLACTAM 2 BENZENE FUGITIVES	1733A
14-1-CR600A	R.A. SALT CRYSTALLIZER	1733A
14-1-CR600B	R.A. SALT CRYSTALLIZER	1733A
14-1-CR710B	OXIME SALT CRYSTALLIZER	1733A, 106.261/11/01/2003, 106.262/11/01/2003
14-1-CT30	COOLING TOWER 30	1733A
14-1-D100	OXIME LOOP SEPARATOR	1733A
14-1-D1105	OXIME DRUM	1733A
14-1-D110	ANONE LOOP SEPARATION DRUM	1733A, 106.261/11/01/2003, 106.262/11/01/2003
14-1-D1202	REARRANGEMENT CIRCULATION DRUM	1733A
14-1-D121	REARRANGEMENT FEED TANK	1733A
14-1-D132	T-1130 O.H. STORAGE TANK	1733A
14-1-D1400	EXTRACTION TOWER DUMP AND WASH WATER	1733A
14-1-D203A	CAPROLACTAM STORAGE	1733A
14-1-D203B	CAPROLACTAM STORAGE	1733A
14-1-D204	LACTAM SEPARATION DRUM	1733A, 106.261/11/01/2003, 106.262/11/01/2003
14-1-D205	CRUDE LACTAM TANK	1733A



### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
14-1-D210A	BENZENE STORAGE TANK	1733A
14-1-D210B	BENZENE STORAGE TANK	1733A
14-1-D260	S260 SCRUBBER RECIRCULATION DRUM	1733A
14-1-D300A	EXTRACT LACTAM STORAGE DRUM	1733A, 106.262/11/01/2003, 106.472/09/04/2000
14-1-D300B	EXTRACT LACTAM STORAGE DRUM	1733A, 106.262/11/01/2003, 106.472/09/04/2000
14-1-D300C	EXTRACT LACTAM STORAGE DRUM	1733A, 106.262/11/01/2003, 106.472/09/04/2000
14-1-D301B	DIST JET H2O DRUM	1733A
14-1-D343B	PRODUCT CHECK TANK	1733A
14-1-D344A	PRODUCT STORAGE TANK	1733A
14-1-D344B	PRODUCT STORAGE TANK	1733A
14-1-D344C	PRODUCT STORAGE DRUM	1733A
14-1-D344D	PRODUCT STORAGE DRUM	1733A
14-1-D400	FORERUN RECEIVER DRUM	1733A
14-1-D500	T-510 BOTTOMS TANK	1733A
14-1-D523	KETTLE O.H. SURGE DRUM	1733A
14-1-D601	CRYSTALLIZER OVERFLOW TANK	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
14-1-D602A	ANTICAKING STORAGE TANK	1733A
14-1-D602B	SLURRY DRUM	1733A
14-1-D606	MOTHER LIQUER DRUM	1733A
14-1-D630B	CR600 O.H. COLLECTION DRUM	1733A
14-1-D700	OXIME SALT STORAGE DRUM	1733A, 106.262/11/01/2003, 106.472/09/04/2000
14-1-D701A	OXIME SALT STORAGE DRUM	1733A, 106.262/11/01/2003, 106.472/09/04/2000
14-1-D701B	OXIME SALT STORAGE DRUM	1733A, 106.262/11/01/2003, 106.472/09/04/2000
14-1-D710	MOTHER LIQUER STORAGE TANK	1733A
14-1-D711	SLURRY THICKNER DRUM	1733A, 106.262/11/01/2003, 106.472/09/04/2000
14-1-D806A	DEEPWELL FEED DRUM	1733A
14-1-D910	FIRST REARRANGEMENT CIRCULATION DRUM	106.472/09/04/2000
14-1-D920	SECOND REARRANGEMENT SURGE DRUM	106.472/09/04/2000
14-1-D930	THIRD REARRANGEMENT CIRCULATION DRUM	1733A
14-1-D950	REARRANGEMENT VENT KNOCKOUT DRUM	106.472/09/04/2000
14-1-DR601	SALT COMBINATION DRYER/COOLER	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
14-1-FUGS	CAPROLACTAM 2 FUGITIVES	1733A, 106.261/11/01/2003, 106.262/11/01/2003
14-1-HW310	HOT WELL	1733A
14-1-HW410	HOT WELL	1733A
14-1-HW430	HOT WELL	1733A
14-1-HW600	HOT WELL	1733A
14-1-HW720	HOT WELL	1733A
14-1-K520	K-520 AGITATOR KETTLE	1733A
14-1-K530	HEAVIES KETTLE	1733A
14-1-KLOAD	KETTLE DRUM LOADING	1733A
14-1-LOAD2	BENZENE LOADING	1733A
14-1-LOAD3	MOLTEN CAPROLACTAM LOADING	1733A
14-1-RLOOP	REARRANGEMENT LOOP REACTORS	1733A
14-1-T1140	ANONE STRIPPING TWR (ORIGINALLY T140)	1733A
14-1-T215	BENZENE EXTRACTION BOTTOMS STRIPPER	1733A
14-1-T220	BENZENE DISTILLATION TOWER	1733A
14-1-T230A	BENZENE STRIPPER TOWER	1733A
14-1-T310	DRYING TOWER	1733A
14-1-T320	PREDISTILLATION TOWER	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
14-1-T330	FORERUN TOWER	1733A
14-1-T340A	FINISHING TOWER	1733A
14-1-T430	LIGHTS TOWER	1733A
14-1-T510	BOTTOMS TOWER	1733A
14-1-V100	OXIME LOOP SEPARATOR VENT	1733A
14-1-V1105	OXIME DRUM VENT	1733A
14-1-V110	ANONE LOOP SEPARATOR VENT	1733A
14-1-V121	REARRANGEMENT FEED TANK VENT	1733A
14-1-V132	T-1130 O.H. STORAGE TANK VENT	1733A
14-1-V1400	EXTRACTION TOWER DUMP AND WASH WATER VENT	1733A
14-1-V210A	BENZENE STORAGE TANK VENT	1733A
14-1-V210B	BENZENE STORAGE TANK VENT	1733A
14-1-V260	S260 SCRUBBER RECIRCULATION DRUM VENT	1733A
14-1-V301B	DIST JET H2O DRUM VENT	1733A
14-1-V600A	R.A. SALT CRYSTALLIZER VENT	1733A
14-1-V600B	R.A. SALT CRYSTALLIZER VENT	1733A
14-1-V910	FIRST REARRANGEMENT CIRCULATION DRUM VENT	1733A
14-1-V920	SECOND REARRANGEMENT SURGE DRUM VENT	106.472/09/04/2000

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
14-1-V930	THIRD REARRANGEMENT CIRCULATION DRUM VENT	1733A
14-1-V950	REARRANGEMENT VENT KNOWCKOUT DRUM VENT	106.472/09/04/2000
7-1-101	D409 NEUTRALIZATION CIRCULATION DRUM VENT	1733A
7-1-11	WASH WATER TANK D504A EPN	1733A
7-1-12	WASH WATER TANK D504A EPN	1733A
7-1-15	NEUTRALIZATION DRUM D508 EPN	1733A
7-1-16	NEUTRALIZATION DRUM D509 EPN	1733A
7-1-17	NEUTRALIZATION CRUDE DRUM D509 EPN	1733A
7-1-1	NEUTRALIZATION STANDPIPE 500 SYS.	1733A
7-1-21	OVERHEAD DRUM D523A EPN	1733A
7-1-23	CHECK TANK D525A2 EPN	1733A
7-1-26	KETTLES O.H. TANK D529 EPN	1733A
7-1-27	BOTTOMS DRUM D534 EPN	1733A
7-1-28	CHECK TANK D540 EPN	1733A
7-1-2	NEUTRALIZATION STANDPIPE 700 SYS.	1733A
7-1-31	PROCESS DRUM D705 EPN	1733A
7-1-32	NEUTRALIZATION DRUM D708 EPN	1733A
7-1-33	NEUTRALIZATION DRUM D709 EPN	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
7-1-34	NEUTRALIZATION DRUM D711 EPN	1733A
7-1-36	OVERHEAD DRUM D723 EPN	1733A
7-1-37	BOTTOMS DRUM D724 EPN	1733A
7-1-38	CHECK TANK D725A2 EPN	1733A
7-1-3	CR500B EPN	1733A
7-1-40	OVERHEAD DRUM D734 EPN	1733A
7-1-46	A.S. DRYER SCRUBBER EPN	1733A
7-1-48	TOWER 909 EPN	1733A
7-1-4	CR500A EPN	1733A
7-1-58	KETTLE 500A EPN	1733A
7-1-59	KETTLE 500D EPN	1733A
7-1-5	CR500C EPN	1733A
7-1-60	TOWER 504 EPN	1733A
7-1-61	TOWER 506 EPN	1733A
7-1-62	TOWER 706 EPN	1733A
7-1-63	TOWER 707 EPN	1733A
7-1-64	TOWER 820 EPN	1733A
7-1-65	TOWER 907 EPN	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
7-1-73	S500 SCRUBBER EPN	1733A
7-1-75	KETTLE DUMP ACTIVITIES EPN	1733A
7-1-80	OXIME SURGE DRUM D600 EPN	106.472/09/04/2000
7-1-8	S-300 BENZENE SCRUBBER EPN	1733A
7-1-9	SLURRY DRUM D400 EPN	1733A
7-1-ASLD	AMMONIUM SULFATE LOADING	1733A
7-1-BENZLD	BENZENE LOADING	1733A
7-1-BZFUG	CAPROLACTAM 1 BENZENE FUGITIVES	1733A
7-1-CR400A	SALT CRYSTALLIZER	1733A
7-1-CR410A	CR-410 SALT CRYSTALLIZER	1733A
7-1-CR500A	AMMONIUM SULFATE CRYSTALLIZER	1733A
7-1-CR500B	CR500B EPN	1733A
7-1-CR500C	CR500C EPN	1733A
7-1-CT700	COOLING TOWER	1733A
7-1-D300	RECYCLE DRUM	1733A
7-1-D400	SLURRY THICKNER DRUM	1733A
7-1-D409	D409 NEUTRALIZATION CIRCULATION DRUM	1733A
7-1-D508	CRUDE SEPARATOR DRUM	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
7-1-D509	MOTHER LIQUOR DRUMS	1733A
7-1-D511	CRUDE STORAGE DRUM	1733A
7-1-D513A1	CAPROLACTAM EXTRACT STORAGE DRUM	1733A
7-1-D518-1	T-505 FEED DRUM	1733A
7-1-D523A	T-909 FEED DRUM	1733A
7-1-D525A2	FINISHED CHECK TANK	106.478/09/04/2000
7-1-D526L	LACTAM FINISHED PRODUCT STORAGE DRUM	1733A
7-1-D526M	LACTAM FINISHED PRODUCT STORAGE DRUM	1733A
7-1-D526P	LACTAM FINISHED PRODUCT STORAGE DRUM	1733A
7-1-D526Q	LACTAM FINISHED PRODUCT STORAGE DRUM	1733A
7-1-D529	KETTLE OVERHEAD DRUM	1733A
7-1-D534	KETTLE FEED DRUM	1733A
7-1-D540	JET WATER STORAGE	1733A
7-1-D570	A.S. ANTICAKING DRUM	1733A
7-1-D600	OXIME SURGE DRUM	106.472/09/04/2000
7-1-D610	FIRST REARRANGEMENT CIRCULATION DRUM	106.472/09/04/2000
7-1-D620	SECOND REARRANGEMENT SURGE DRUM	106.472/09/04/2000
7-1-D630	THIRD REARRANGEMENT CIRCULATION DRUM	106.472/09/04/2000



### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
7-1-D650	REARRANGEMENT VENT KNOCKOUT DRUM	106.472/09/04/2000
7-1-D700C	SEPARATOR DRUM FOR 700 LPI	1733A
7-1-D701A	CYCLOHEXANONE FEED DRUM TO OXIMATION	1733A
7-1-D702	T-800 OH DRUM - FEED TO T-810 OXIME REDRYING SURGE	1733A
7-1-D704A	DISTILLATION WASH WATER DRUM	106.472/09/04/2000
7-1-D704B	DISTILLATION WASH WATER DRUM	106.472/09/04/2000
7-1-D705	OXIME FEED DRUM FOR 500/700/900 RR	1733A
7-1-D708-1	CRUDE SEPARATOR DRUM	1733A
7-1-D709	MOTHER LIQUOR DRUM	1733A
7-1-D711	CRUDE FEED DRUM TO T-701	1733A
7-1-D712A	JET WATER DRUM	1733A
7-1-D713B	EXTRACT STORAGE DRUM	1733A
7-1-D713C	EXTRACT STORAGE DRUM	1733A
7-1-D723A	T909 FEED DRUM	1733A
7-1-D724	T-707 FEED DRUM	1733A
7-1-D725A2	FINISHED CHECK TANK	106.478/09/04/2000
7-1-D734	HEAVIES TOWER OVERHEAD DRUM	1733A

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
7-1-D744	T-505 OVERHEAD RECEIVER	1733A
7-1-D745A1	BENZENE FEED DRUM	1733A
7-1-D745B-1	POLY WASH WATER STORAGE DRUM	1733A
7-1-D745C	EXCESS LIQUID STORAGE DRUMS	1733A
7-1-D745D	EXCESS LIQUID STORAGE DRUMS	1733A
7-1-D909	T-909 JET WATER & LIGHT IMPURITIES	1733A
7-1-DR400	A.S. FLUIDIZED BED DRYER	1733A
7-1-FUGS	CAPROLACTAM 1 FUGITIVES	1733A
7-1-HW400	HOT WELL	1733A
7-1-HW500	CRYSTALYZER B/C HOT WELL	1733A
7-1-HW504	HOT WELL DIST.	1733A
7-1-HW505	HOT WELL DIST.	1733A
7-1-HW705	HOT WELL DIST.	1733A
7-1-HW803	HOT WELL FOR OXIME DRYING SYSTEM	1733A
7-1-K500A	DISTILLATION KETTLE	1733A
7-1-K500D	DISTILLATION KETTLE	1733A
7-1-KLOAD	KETTLE DRUM LOADING	1733A
7-1-RLDG	RAIL LOADING	1733A

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
7-1-RLOOP	REARRANGEMENT LOOP REACTORS	1733A
7-1-T504	DRYING RECYCLE TOWER	1733A
7-1-T505	BENZENE DISTILLATION TOWER	1733A
7-1-T506	FINISHING TOWER	1733A
7-1-T700A	CYCLOHEXANONE STRIPPER	1733A
7-1-T701B1	7-1-T701B1	1733A
7-1-T702-2	BENZENE STRIPPER TOWER	1733A
7-1-T703	EXTRACTION TOWER BOTTOMS, STRIPPER	1733A
7-1-T704-1	DRYING TOWER	1733A
7-1-T705	FORERUN TOWER	1733A
7-1-T706	FINISHING TOWER	1733A
7-1-T707	HEAVIES TOWER	1733A
7-1-T907	HEAVIES, HEAVIES TOWER	1733A
7-1-T909	FORERUN, FORERUN, FORERUN TOWER	1733A
7-1-TLDG	TRUCK LOADING	1733A
7-1-V300	RECYCLE DRUM VENT	1733A
7-1-V400A	SALT CRYSTALLIZER VENT	1733A
7-1-V410A	CR-410 SALT CRYSTALLIZER VENT	1733A

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
7-1-V518-1	T-505 FEED DRUM VENT	1733A
7-1-V610	FIRST REARRANGEMENT CIRCULATION DRUM VENT	1733A
7-1-V620	SECOND REARRANGEMENT SURGE DRUM VENT	1733A
7-1-V650	REARRANGEMENT VENT KNOWCKOUT DRUM VENT	1733A
7-1-V701A	PROCESS DRUM D701 EPN	1733A
7-1-V704A	DISTILLATION WASH WATER DRUM	106.472/09/04/2000
7-1-V704B	DISTILLATION WASH WATER DRUM	106.472/09/04/2000
7-1-V712A	JET WATER DRUM VENT	1733A
7-1-V744	T-505 OVERHEAD RECEIVER VENT	1733A
7-1-V745A1	BENZENE FEED DRUM VENT	1733A
7-2-101	DEHYDROGENATION VENT	1733A
7-2-13	DEHYDRO PRODUCT DRUM D28 EPN	1733A
7-2-25	DEHYDRO FEED DRUM, D189 EPN	1733A
7-2-BR360	R-360 BURNER	1733A
7-2-BR370	R-370 BURNER (OLD BR3)	1733A
7-2-D100A	VENT GAS SEPARATOR	1733A
7-2-D106A	VENT GAS SEPARATOR DRUM	1733A
7-2-D106E	VENT GAS HEAT RECOVERY CONDENSATE DRUM	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
7-2-D107A	ACID WATER SEPARATOR DRUM	1733A
7-2-D108	VENT GAS SEPARATOR FOR 3RD REACTOR	1733A
7-2-D109	CAUSTIC WATER SEPARATOR DRUM	1733A
7-2-D10	CAUSTIC WATER SEPARATOR DRUM	1733A
7-2-D110	DILUTE CAUSTIC WATER SEPARATOR DRUM	1733A
7-2-D113	WASH OIL STORAGE TANK	1733A
7-2-D116	PROCESS DRUM	106.261/11/01/2003, 106.262/11/01/2003
7-2-D142	PROCESS DRUM	106.261/11/01/2003, 106.262/11/01/2003
7-2-D17	ANOLON STORAGE DRUM	1733A, 106.261/11/01/2003, 106.262/11/01/2003
7-2-D189	DEHYDRO FEED DRUM	1733A
7-2-D21A	BCE STORAGE DRUM	1733A
7-2-D21B	BCE STORAGE DRUM	1733A
7-2-D28	DEHYDRO PRODUCT DRUM	1733A
7-2-D2A	DILUTE CATALYST DRUM	1733A, 106.261/11/01/2003, 106.262/11/01/2003
7-2-D304B	DILUTE CAUSTIC WATER FLASH DRUM	1733A
7-2-D30B	FINISHED ANOL DRUM	1733A
7-2-D30C	FINISHED ANOL	1733A
7-2-D33A	ANONE STORAGE	1733A

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
7-2-D33B	ANONE STORAGE	1733A
7-2-D34A	ANONE STORAGE	1733A
7-2-D34B	ANONE STORAGE	1733A
7-2-D52	HEXANE WATER SEPARATOR DRUM	1733A
7-2-D56A	CONCENTRATED CATALYST STORAGE TANK	1733A, 106.261/11/01/2003, 106.262/11/01/2003
7-2-D61	ANONE STORAGE	1733A
7-2-D67A	LOW PRESSURE VENT GAS KO DRUM	1733A
7-2-D7A	THIRD REACTOR ACID WATER DRUM	1733A
7-2-D8	C'ANE FEED TANK	1733A
7-2-FUG	CYCLOHEXANONE 1 FUGITIVES	1733A, 106.261/11/01/2003, 106.262/11/01/2003
7-2-R110	FIRST OXIDATION REACTOR	1733A
7-2-R120	SECOND OXIDATION REACTOR	1733A
7-2-R130	THIRD OXIDATION REACTOR	1733A
7-2-R20	CYCLOHEXANE STORAGE TANK	1733A
7-2-R30	REPROCESS STORAGE TANK	1733A
7-2-R360	DEHYDRO REACTOR (OLD R <sub>3</sub> )	1733A
7-2-R370	DEHYDRO REACTOR (OLD R <sub>103</sub> )	1733A
7-2-RLDG	ANONE 1 RAIL LOADING	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
7-2-T105A	FIRST EFFECT CYCLOHEXANE RECOVERY TOWER	1733A, 106.261/11/01/2003, 106.262/11/01/2003
7-2-T106A	SECOND EFFECT C'ANE RECOVERY TOWER	1733A
7-2-T11	FINAL CYCLOHEXANE RECOVERY TOWER	1733A
7-2-T14	THIRD EFFECT C'ANE RECOVERY TOWER	1733A, 106.261/11/01/2003, 106.262/11/01/2003
7-2-T15A	ACID WATER TOWER	1733A
7-2-T200	FORERUNS TOWER (OLD T11A)	1733A
7-2-T280	LIGHTS PURGE TOWER (OLD T9)	1733A
7-2-T285	BCE PURGE TOWER (OLD T10)	1733A
7-2-T9B	NITROGEN/WATER FLASH TOWER	1733A
7-2-TLDG	ANONE 1 TRUCK LOADING	1733A
7-2-V100A	VENT GAS SEPARATOR VENT	1733A
7-2-V106A	VENT GAS SEPARATOR DRUM VENT	1733A
7-2-V106E	VENT GAS HEAT RECOVERY CONDENSATE DRUM VENT	1733A
7-2-V107A	ACID WATER SEPARATOR DRUM VENT	1733A
7-2-V108	VENT GAS SPEARATOR FOR 3RD REACTOR VENT	1733A
7-2-V109	CAUSTIC WATER SEPARATOR DRUM VENT	1733A
7-2-V10	CAUSTIC WATER SEPARATOR DRUM VENT	1733A
7-2-V110	DILUTE CAUSTIC WATER SEPARATOR DRUM VENT	1733A

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
7-2-V113	WASH OIL STORAGE TANK	1733A
7-2-V116	PROCESS DRUM D116 VENT	106.261/11/01/2003, 106.262/11/01/2003
7-2-V142	PROCESS DRUM D142 VENT	106.261/11/01/2003, 106.262/11/01/2003
7-2-V20	CYCLOHEXANE STORAGE TANK VENT	1733A
7-2-V304B	DILUTE CAUSTIC WATER FLASH DRUM VENT	1733A
7-2-V30	REPROCESS STORAGE TANK VENT	1733A
7-2-V52	HEXANE WATER SEPARATOR DRUM VENT	1733A
7-2-V67A	LOW PRESSURE VENT GAS KO DRUM VENT	1733A
7-2-V7A	THIRD REACTOR ACID WATER DRUM VENT	1733A
7-2-V8	C'ANE FEED TANKVENT	1733A
9-1-D193B	PROCESS CLEARING DRUM	1733A
9-1-D60A	CYCLOHEXANE AND ANOLON STORAGE DRUMS	1733A, 106.261/11/01/2003, 106.262/11/01/2003
9-1-D60B	CYCLOHEXANE STORAGE DRUM	1733A
9-1-D60C	CYCLOHEXANE STORAGE DRUM	1733A
9-1-D900	900BLK. A/W STORAGE DRUM	1733A



**Alternative Requirement**

**Alternative Requirement .....136**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 6  
1445 ROSS AVENUE, SUITE 1200  
DALLAS, TX 75202-2733

RECEIVED

MAR 01 2005

FEB 24 2005

Mr. Art Colwell  
Vice President and General Manager  
BASF Corporation  
602 Copper Road  
Freeport, TX 77541

Re: Request for Approval of Alternate Monitoring Procedures  
R-170 Catalytic Incinerator  
Cyclohexanone I and II Plants, Caprolactam Complex  
BASF Freeport Site  
TNRCC Account No. BL-0021-O

AIR PERMITS DIVISION

FEB 19 2010

Dear Mr. Colwell:

This letter is in response to your request for an approval of alternate monitoring procedures (AMP), dated September 22, 2004. You said in your AMP request that you are seeking the approval of alternate monitoring procedures to those in the provisions of NSPS Part 60, Subpart NNN. You indicated that the approval request is for an affected facility subject to NSPS Subpart NNN, 40 CFR 60.662(a). The facility is located in Freeport, Texas, at the facility, owned and operated by BASF Corporation ("BASF").

You requested a revision of the alternative monitoring procedures approved previously by the EPA in a July 16, 2004 letter. Your request letter indicated that the following catalytic incinerator is subject to the emission standards of NSPS Part 60, Subpart NNN, §60.662(a).

- R-170 Catalytic Incinerator

EPA had required the following conditions as a part of the July 16<sup>th</sup> approval:

1. The minimum outlet temperature will be 550 °C.
2. The minimum delta T across the bed will be 287 °C.
3. The minimum organic loading to the bed will be 89,380 lb/hr.
4. BASF will establish alarms at a 15°C differential to allow time for corrective action

Your request stated that the minimum vent gas flow rate of 89,390lbs/hr is problematic due to actual flow rate being much lower during period of cold ambient temperature, reduced production rates, or maintenance shutdowns. During these periods, BASF must add raw material

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to increase the mass flow rate to the minimum approved in the July 16<sup>th</sup> letter. You conducted additional stack testing on the catalytic incinerator to demonstrate compliance at lower flow rates. You did not propose to change any other conditions of the previous approval.

EPA Region 6 reviewed your request and requested additional data on the inlet stream, including composition and "light-off" curves. The data from the stack test that you conducted in August 2005 with a vent gas flow of 35,300 lbs/hr indicated that with the process limitations of minimum outlet temperature of 550 °C and minimum delta T across the bed of 287 °C, the destruction efficiency is greater than the 98% regulatory requirement. The light-off curves that you supplied indicated that butane (which will have the highest temperature requirement) is destroyed with greater than 99% efficiency. Your stack test results indicate a slightly lower efficiency. The overall combined stream meets the regulatory destruction efficiency requirement.

Based upon this information and pursuant to 40 CFR 60.13(i), EPA Region 6 approves the following alternative monitoring plan for BASF's R-170 Catalytic Incinerator:

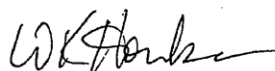
1. The minimum outlet temperature will be 550 °C.
2. The minimum delta T across the bed will be 287 °C.
3. The minimum organic loading to the bed will be 35,300 lbs/hr.
4. BASF will establish alarms at a 15°C differential to allow time for corrective action

As a condition of this approval, BASF will keep records of organic flow rate to R-170 in lb/hr. Any hourly flow rates that are below the approved minimum will be considered a violation of NSPS Subpart NNN and must be reported as excess emissions.

This determination is based on the information submitted to EPA on September 22, 2004 through February 16, 2005.

If you have any questions concerning this determination, please contact Ms. Anupa Ahuja of my staff at (214) 665-2701.

Sincerely yours,



William Honker  
Chief  
Air/Toxics and Inspection  
Coordination Branch

cc: Karen Atkinson (TCEQ)

## **Appendix A**

<b>Acronym List .....</b>	<b>139</b>
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## Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM .....	actual cubic feet per minute
AMOC .....	alternate means of control
ARP .....	Acid Rain Program
ASTM .....	American Society of Testing and Materials
B/PA .....	Beaumont/Port Arthur (nonattainment area)
CAM .....	Compliance Assurance Monitoring
CD .....	control device
COMS .....	continuous opacity monitoring system
CVS .....	closed-vent system
D/FW .....	Dallas/Fort Worth (nonattainment area)
DR .....	Designated Representative
ELP .....	El Paso (nonattainment area)
EP .....	emission point
EPA .....	U.S. Environmental Protection Agency
EU .....	emission unit
FCAA Amendments .....	Federal Clean Air Act Amendments
FOP .....	federal operating permit
GF .....	grandfathered
gr/100 scf .....	grains per 100 standard cubic feet
HAP .....	hazardous air pollutant
H/G/B .....	Houston/Galveston/Brazoria (nonattainment area)
H <sub>2</sub> S .....	hydrogen sulfide
ID No. ....	identification number
lb/hr .....	pound(s) per hour
MMBtu/hr .....	Million British thermal units per hour
MRRT .....	monitoring, recordkeeping, reporting, and testing
NA .....	nonattainment
N/A .....	not applicable
NADB .....	National Allowance Data Base
NO <sub>x</sub> .....	nitrogen oxides
NSPS .....	New Source Performance Standard (40 CFR Part 60)
NSR .....	New Source Review
ORIS .....	Office of Regulatory Information Systems
Pb .....	lead
PBR .....	Permit By Rule
PM .....	particulate matter
ppmv .....	parts per million by volume
PSD .....	prevention of significant deterioration
RO .....	Responsible Official
SO <sub>2</sub> .....	sulfur dioxide
TCEQ .....	Texas Commission on Environmental Quality
TSP .....	total suspended particulate
TVP .....	true vapor pressure
U.S.C. ....	United States Code
VOC .....	volatile organic compound